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MODERN AMERICAN ARCHITECTURE

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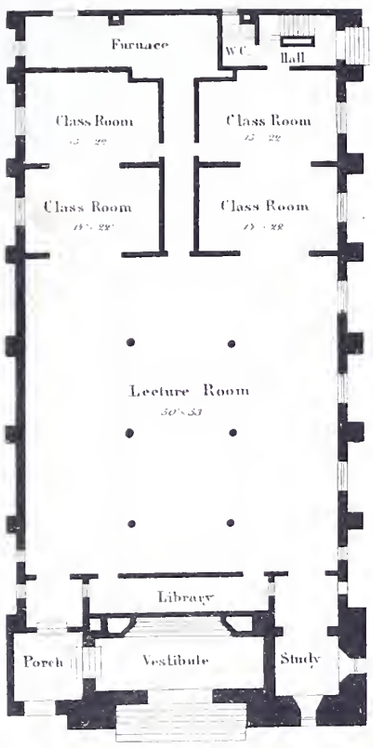
Joseph Watson

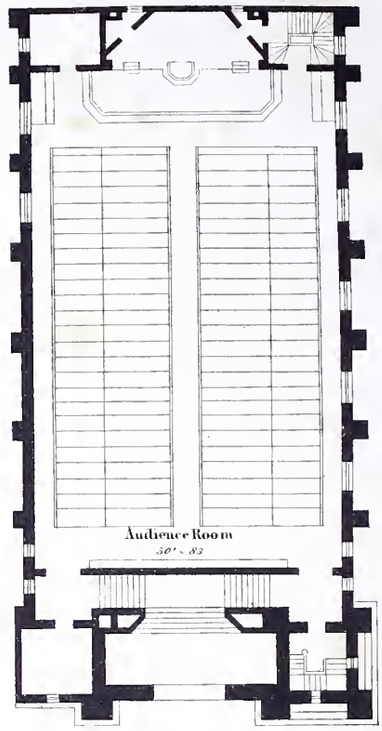
West Newbury

Mass.



Basement Plan.

Fig 2.



Audience Room Floor PLAN.

Fig 1

St PAUL'S M.E.CHURCH TOLEDO.O'

MODERN AMERICAN ARCHITECTURE.

DESIGNS AND PLANS

FOR

VILLAS, FARM-HOUSES, COTTAGES, CITY RESIDENCES, CHURCHES, SCHOOL-HOUSES, &c., &c.

CONTAINING FIFTY-FIVE ORIGINAL PLATES GIVING IN DETAIL

PLANS AND ILLUSTRATIONS

SUITED TO ALL PARTS OF THE COUNTRY.

BY

M. F. CUMMINGS, Architect, Troy, N. Y.,

AND

C. C. MILLER, Architect, Toledo, Ohio.

LITHOGRAPHED AND PRINTED BY JULIUS BIEN, NEW YORK.

1868.

PUBLISHED BY THE AUTHORS,

A. J. BICKNELL, GENERAL AGENT, 282 RIVER STREET,

TROY, N. Y.

The designs given are mainly of dwelling houses—suitable to suburban and country situations—and they will be found to be in great variety, from the plain and inexpensive to the costly and elaborate, and all of them fully up to the present style of building in the oldest and most advanced portions of the country.

Particular attention has been given to the arrangements of the interiors in all the designs; in all cases the entrances are made ample, the halls spacious and affording direct access to all the principal rooms; the stairways will be found easy of ascent, and the conveniencies of closets, pantries and store-rooms have received due attention. One feature of the exteriors of many of the buildings will attract attention, viz., the "French roofs." These are very generally used at the present time, and we recommend them for buildings of two or three stories in height, the available floor space in a story placed in the roof being as great as when the walls are carried up to gain an additional story.

All exterior details given will be found practicable and easy of execution, and in but few instances elaborate or expensive; our aim has been to introduce a style of work that will commend itself to all, and we trust our patrons will successfully follow our designs, and produce buildings that will combine beauty and utility in their construction and composition.

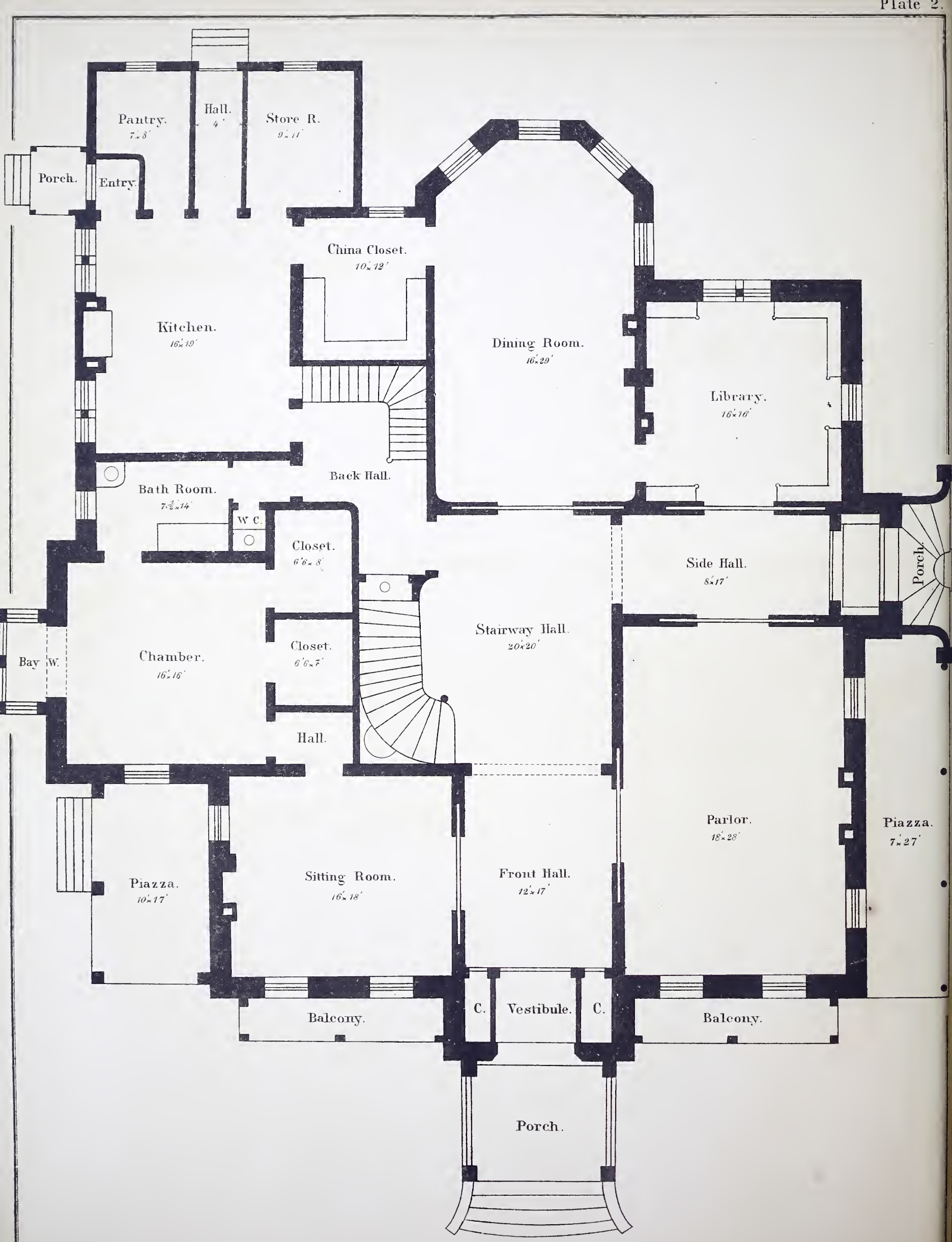
M. F. CUMMINGS,
C. C. MILLER, } Architects.

FRONTISPIECE.

The frontispiece shows a perspective view of the exterior of St. Paul's M. E. church-edifice at Toledo, O., and also the plans of the same.

It is located at the corner of Madison and Superior Streets, on a lot 60 ft. × 120 ft., and is made as large as could be conveniently designed for that space. The audience-room will seat about 600 persons. The walls are of brick, with the dressings for buttresses,—string cornices, water-table, sills, and belts of cut stone. The interior, over audience-room, is finished with an open timbered roof. The audience-room occupies the whole of the upper story, except what is taken for stairs, ante-rooms, &c., as shown in Fig. 1. The basement is divided into lecture-room, four class-rooms, furnace-room, &c., as shown in Fig. 2. The cost of the building is $40,000.

FRONT ELEVATION.


Pantry.
7'×8'
Hall.
4'
Store R.
9'×11'
Porch.
Entry.
China Closet.
10'×12'
Kitchen.
16'×19'
Dining Room.
16'×29'
Library.
16'×16'
Back Hall.
Bath Room.
7'6"×14'
W. C.
Closet.
6'6"×8'
Side Hall.
8'×17'
Porch.
Stairway Hall.
20'×20'
Bay W.
Chamber.
16'×16'
Closet.
6'6"×7'
Hall.
Piazza.
10'×17'
Sitting Room.
16'×18'
Front Hall.
12'×17'
Parlor.
18'×28'
Piazza.
7'×27'
Balcony.
C.
Vestibule.
C.
Balcony.
Porch.

FIRST STORY.

SECOND STORY.

PLATES 1, 2, 3.

PLATES 1, 2, 3 show the first and second floor plans, and the elevation of the front, of a large and elaborate dwelling-house. The design was prepared, a few months since, for Sanford Blackinton, Esq.; the building is now being erected at North Adams, Mass., and when completed will be one of the most spacious residences in that State. In the design which is being carried out, some few changes have been made in the style of the windows of the front, and in the dimensions of the library, which have been enlarged.

The first story contains front, side, rear, and stairway halls; parlor, sitting-room, library, dining-room, chamber, bath-room, kitchen, pantries, closets, &c. The second story has spacious halls, sleeping-rooms, closets, &c., and the third story is arranged in like manner. In the basement are cellars for provisions and fuel, wash-room, ironing-room, and store-rooms. All the details, inside and outside, are elaborately designed. The walls to be of pressed brick; the basement, and door, and window finish of brown stone.

The piazzas, porches, and bay-window, are all spacious, and at the side-entrance is a carriage porch, not shown on the plans. The roofs are to be covered with ornamented red slate, and the interior is to be finished largely with black walnut, butternut, maple, and chestnut woods.

No details are given in the plates, for the reason that a house so extensive as this can not well be illustrated in a work of this kind, without occupying far too large a space; but the plans and elevation may afford many valuable hints to any one who proposes to erect a building of similar character and dimensions.

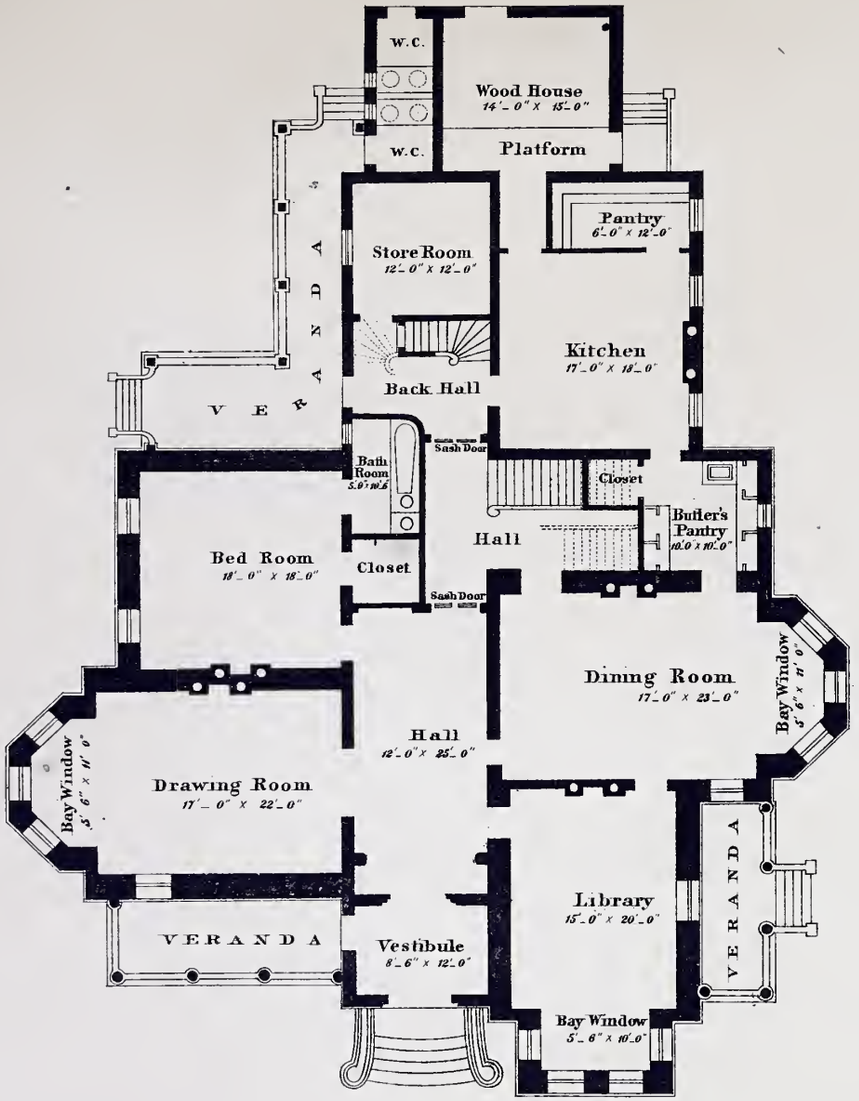
PLATES 4, 5

This commodious villa, in the Italian style, was designed and nearly executed for W. S. B. Hubbell, Esq., deceased, of the late firm of Kuler and Hubbell of Toledo, Ohio. The change of purpose of Mrs. Hubbell, incident to her husband's death, terminated the work; so the house remains incomplete. It is situated near the Maumee River, and affords, from its tower, a fine view of the River, Bay, and Lake Erie.

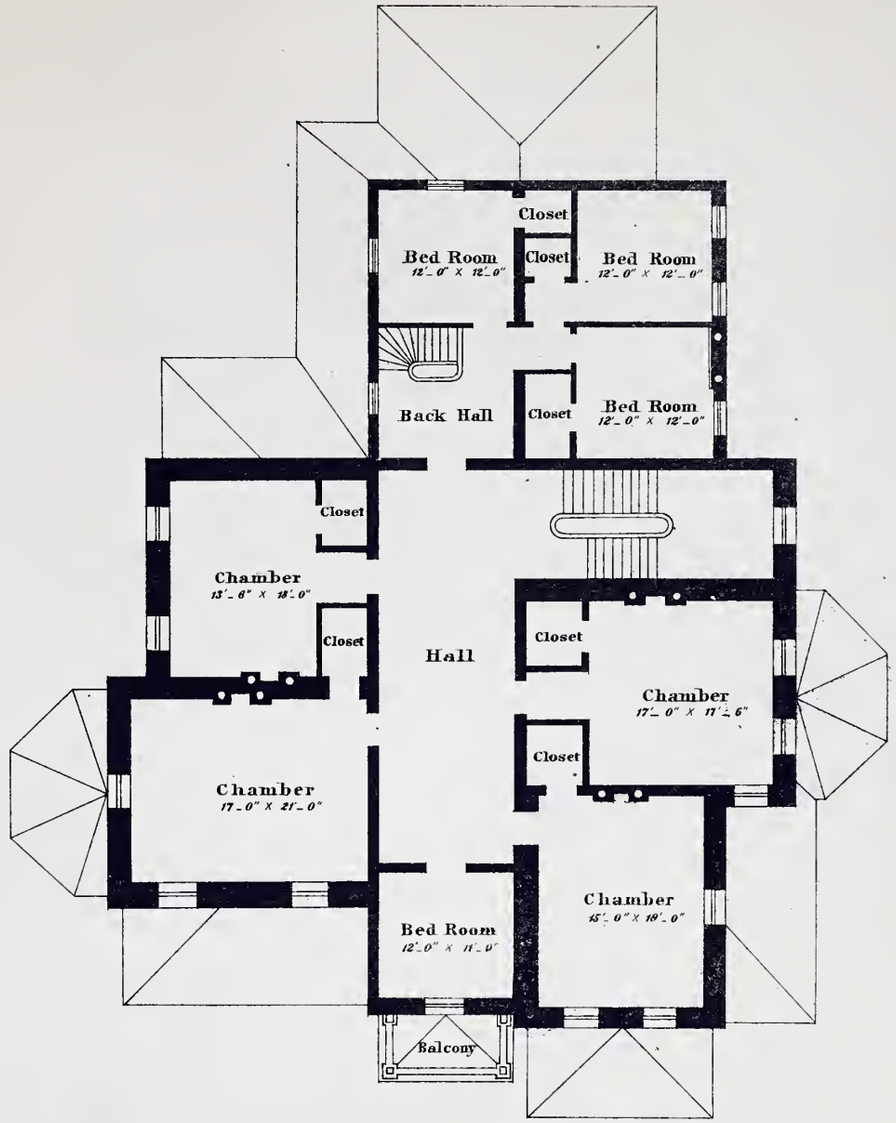
The walls are brick with freestone trimmings. The verandas, cornices, &c., are of wood. The roofs are of slates or tin. French plate glass is to be used for the windows.

The plans of floors of this house are drawn to a scale of an inch to sixteen feet. The elevation is drawn to a scale of an inch to eight feet.

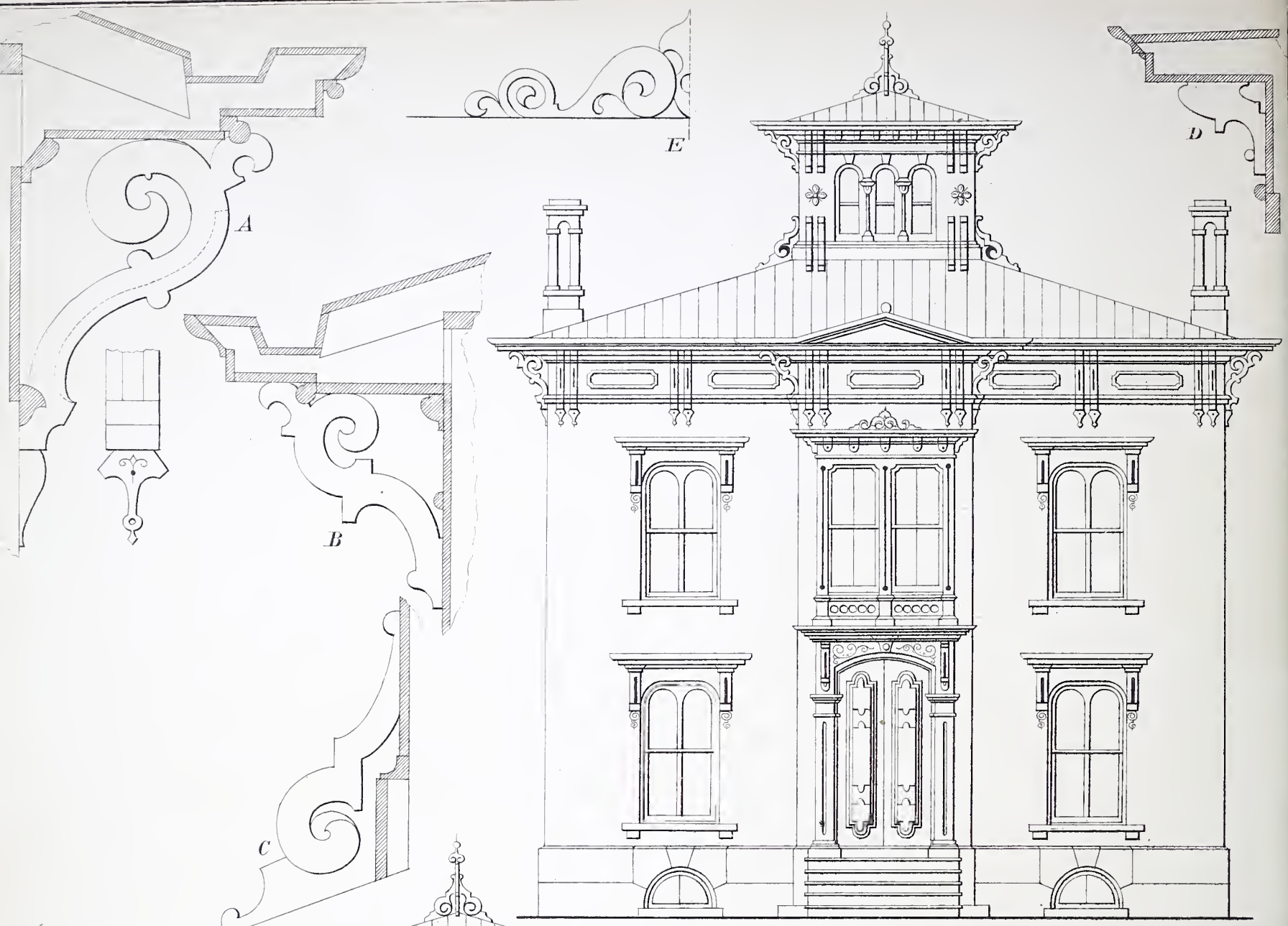
FRONT ELEVATION.



FIRST FLOOR.

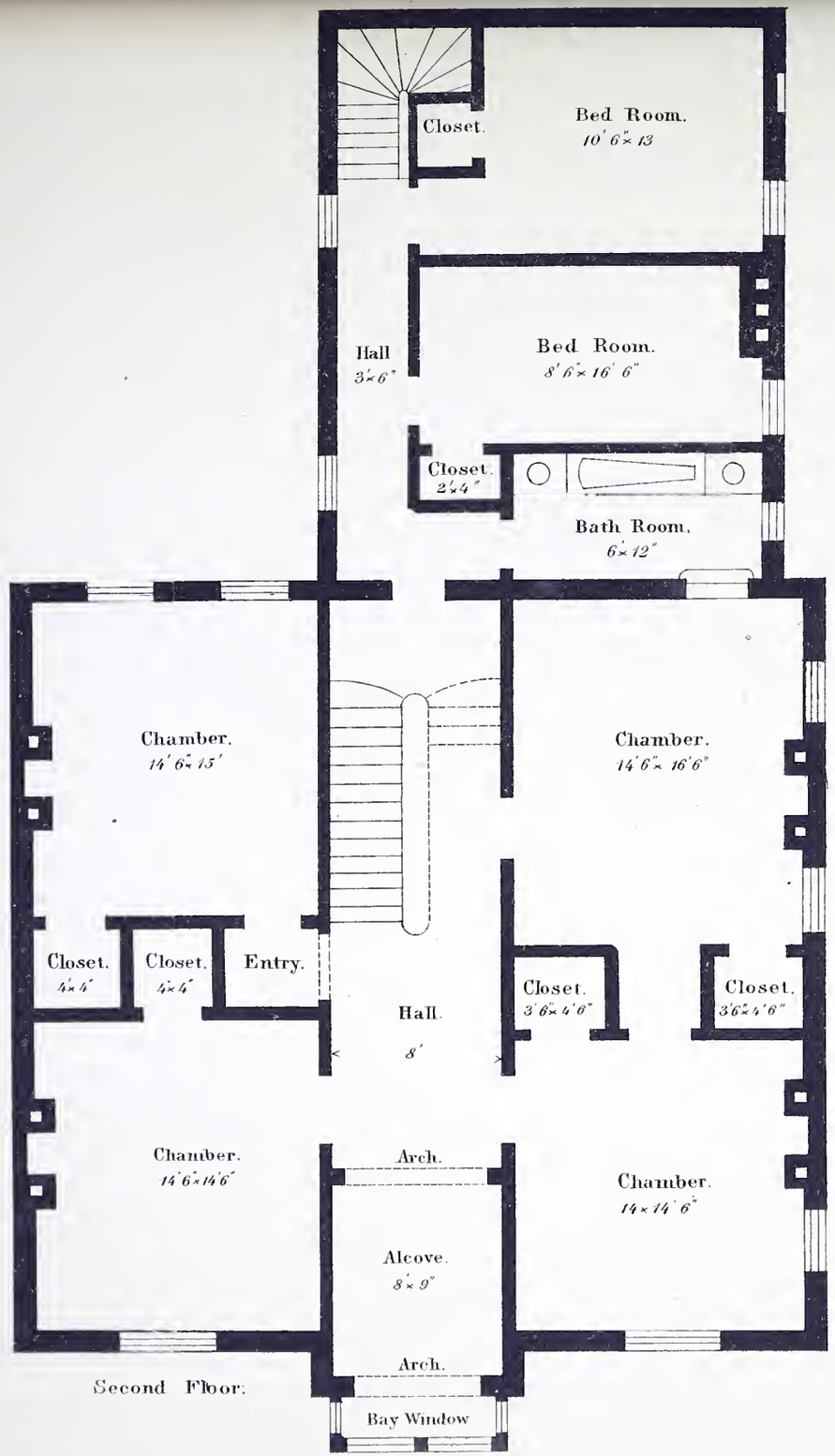


SECOND FLOOR.

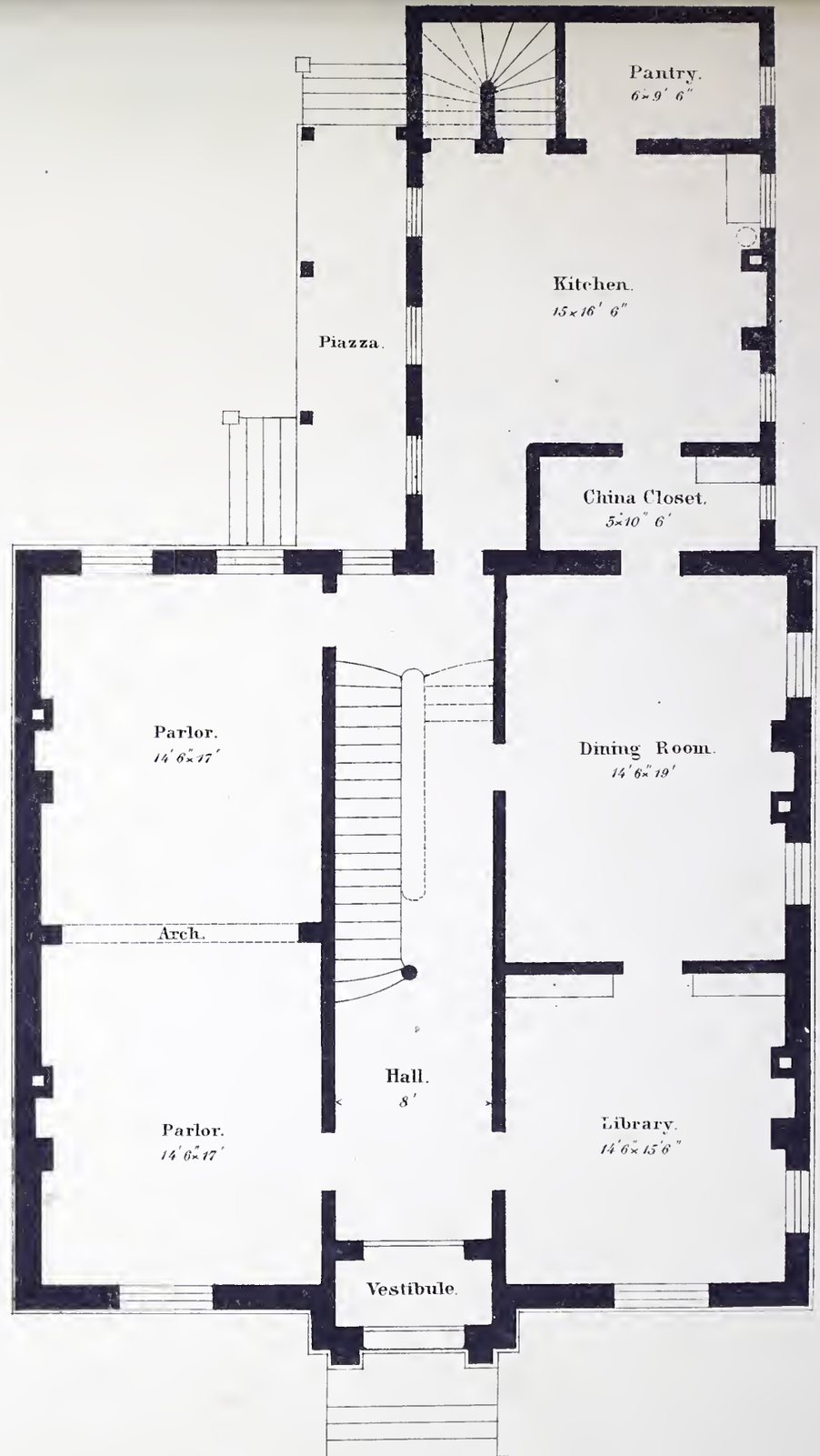


FRONT ELEVATION.

SIDE ELEVATION.



Second Floor.



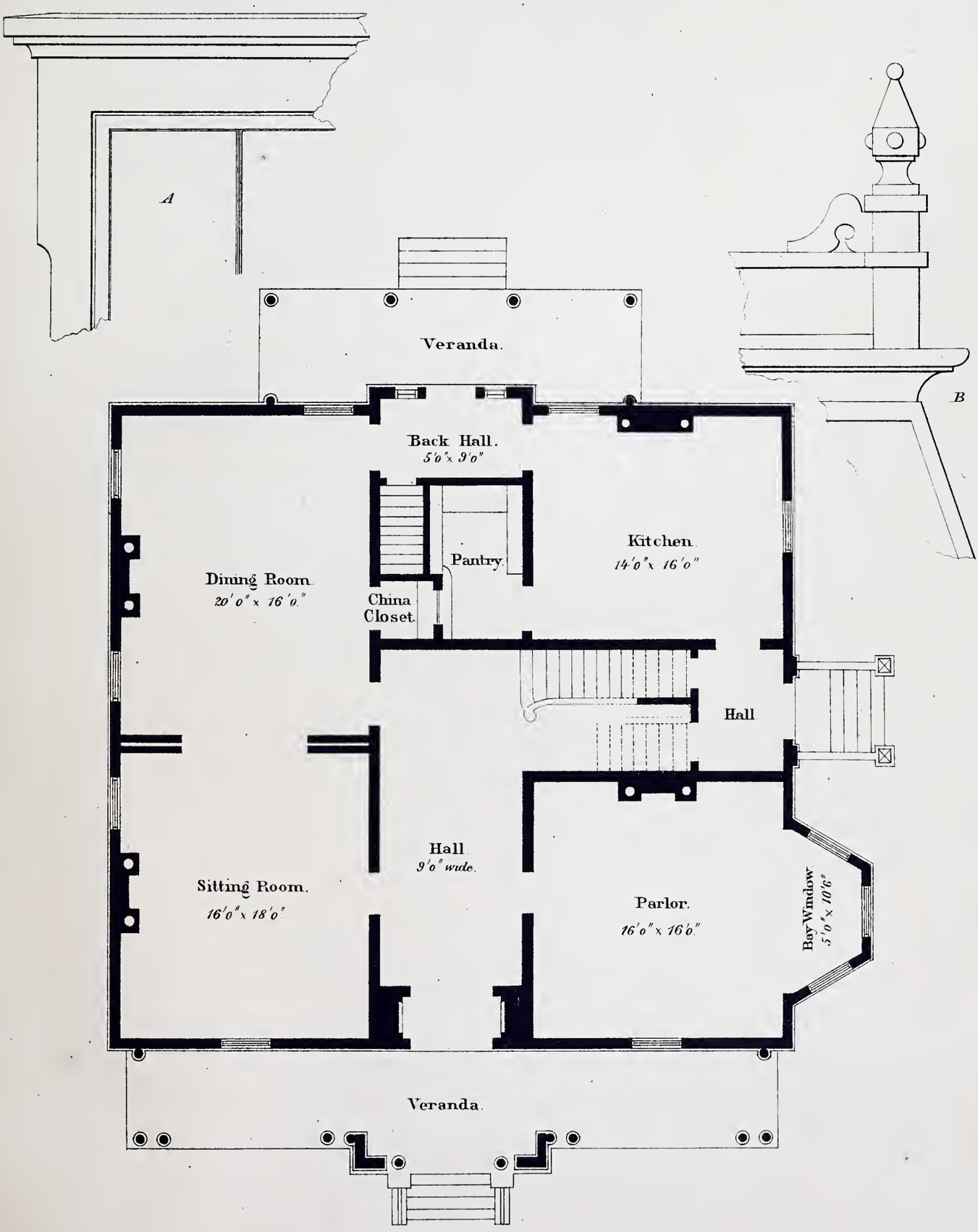
PLATES 6, 7.

PLATES 6, 7 show the plans, elevations, and details of a two-story brick dwelling, designed for Dr. Ellwood, of Schenectady, N. Y., and now being erected by him. Some slight changes have been made in the first story, which were required by the owner to meet the necessities of his profession, but which would not be needed by others.

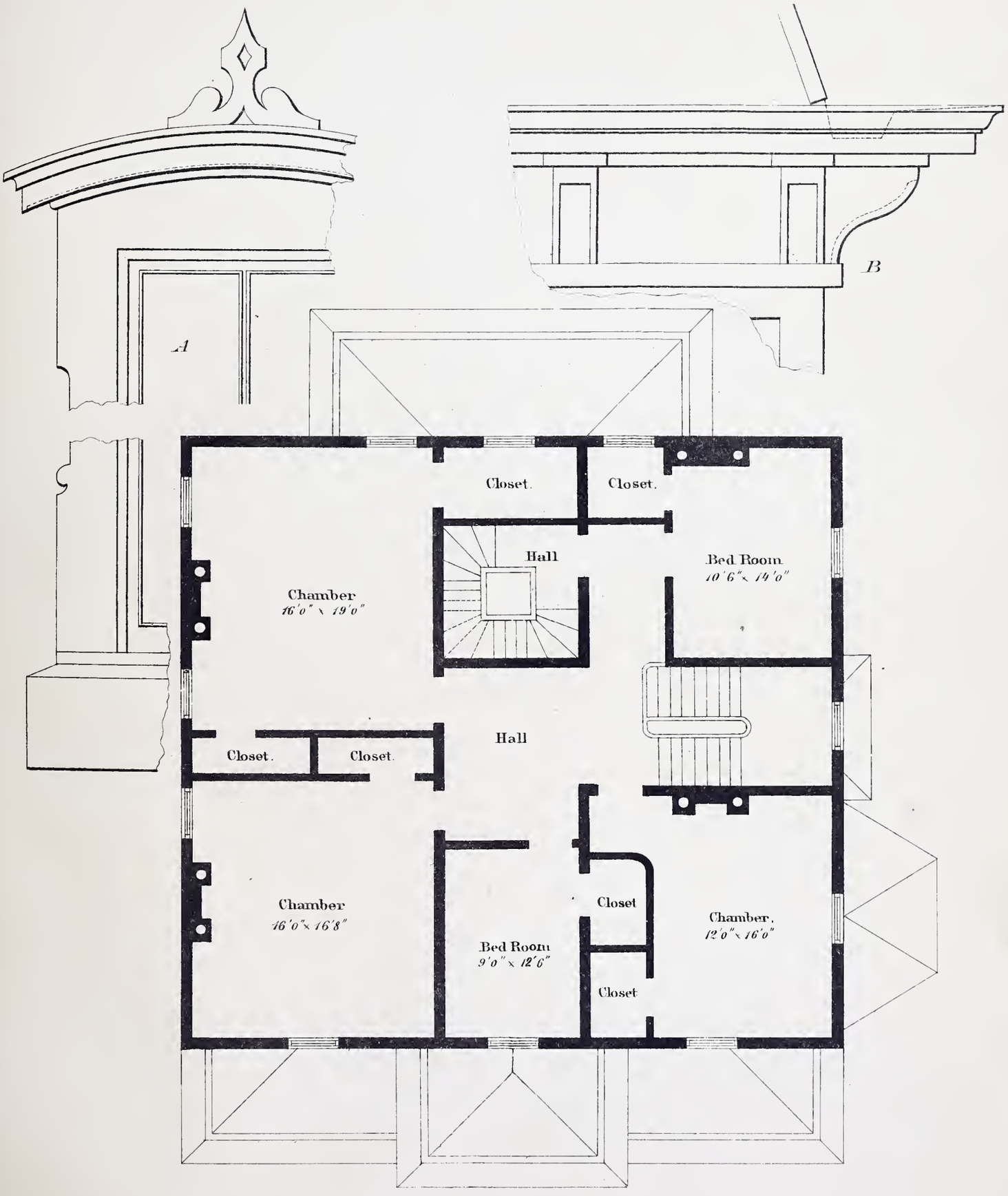
The first story contains two parlors, library, dining-room, hall, kitchen, china-closet, pantry, and back stairs. The second story contains six sleeping-rooms, bath-room, halls, and closets.

The exterior is designed in a style quite common in some localities in the Eastern States, having a flat roof covered with tin, an observatory in the centre, and cornices of heavy projection. The squareness of the plan is relieved by the projection and bay-window in front; a piazza on the side of the main part would add much to the effect of the building. A shows the main cornice; B, the cupola cornice; C, the base of the same; D, the bay-window cornice, and E, the scroll on the same. The door-cap is to project four feet and to support the bay-window.

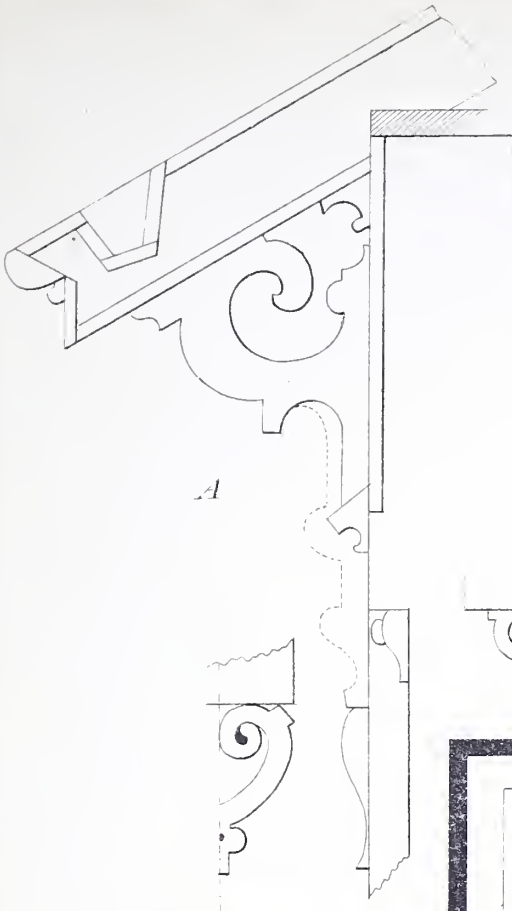
Scale of plans and elevations, $\frac{1}{8}$ in. to the foot. Scale of details, $\frac{3}{4}$ in. to the foot.


A
B
Veranda.
Back Hall.
5'0" x 9'0"
Kitchen.
14'0" x 16'0"
Pantry.
Dining Room.
20'0" x 16'0."
China Closet.
Hall
Hall
9'0" wide.
Sitting Room.
16'0" x 18'0"
Parlor.
16'0" x 16'0."
Bay Window
5'0" x 10'6"
Veranda.

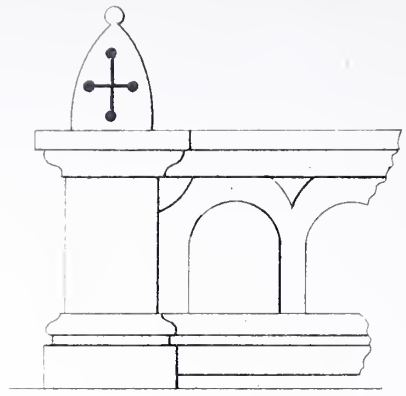
FIRST FLOOR.



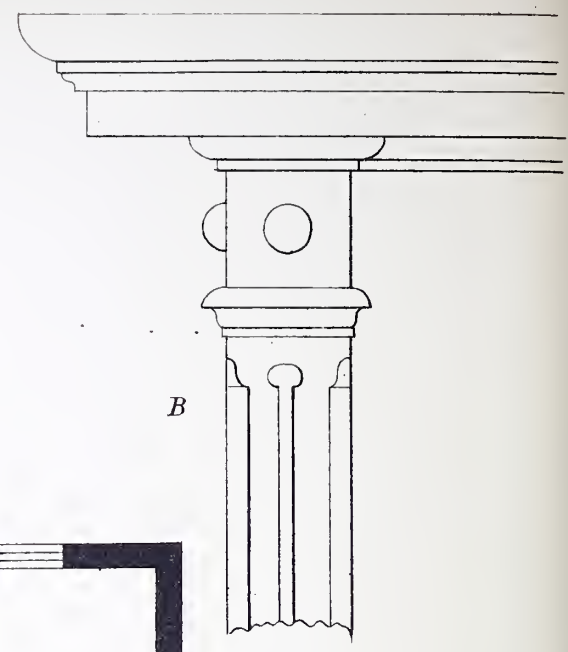
SECOND FLOOR.



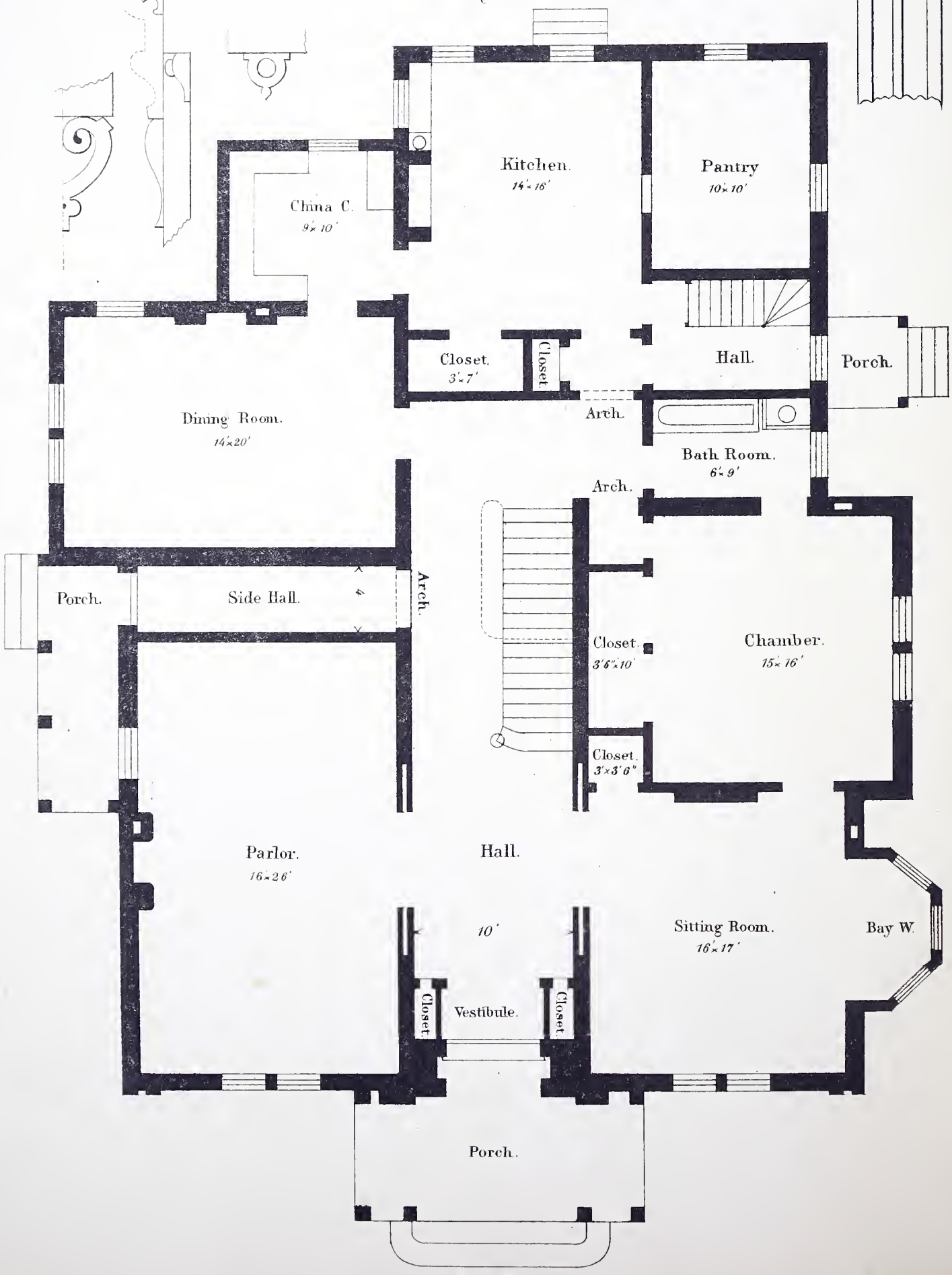
A



C



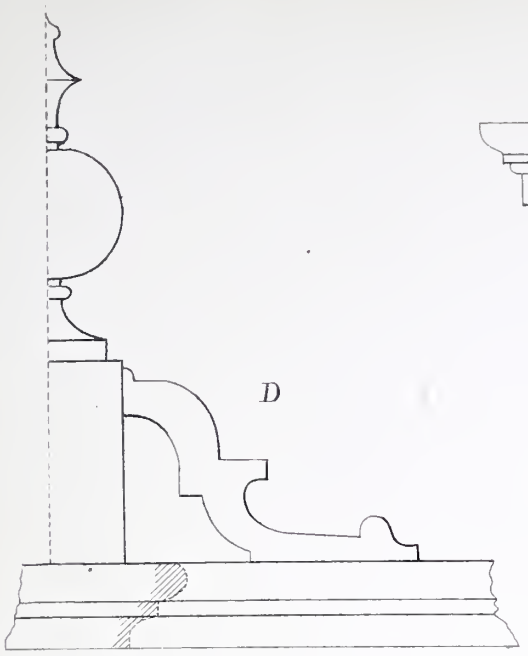
B



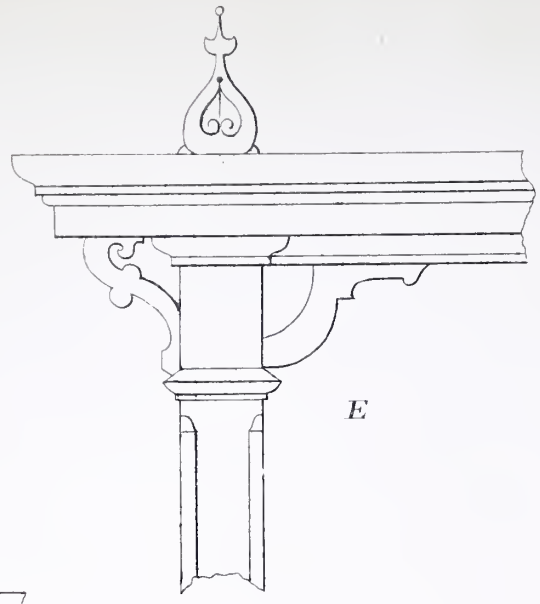
First Floor.

FRONT ELEVATION

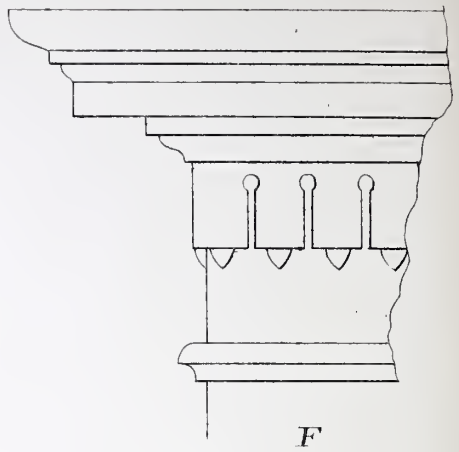
SIDE ELEVATION



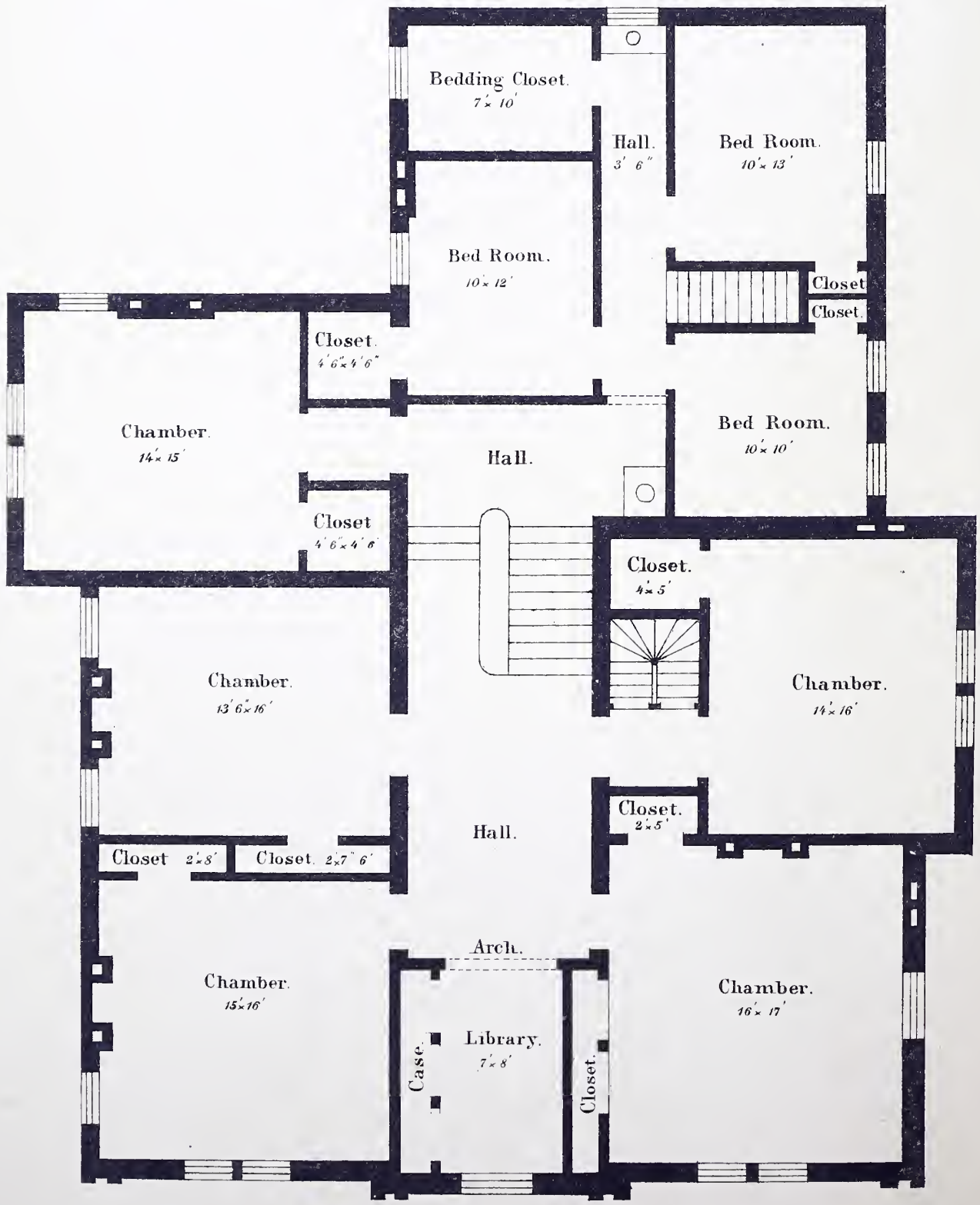
D



E



F



SECOND FLOOR.

PLATES 11, 12, 13.

Plates 11, 12, and 13 show the plans and elevations of a large dwelling-house recently erected for J. M. Haswell on the heights, about one mile from the village of West Troy, N. Y. The house is large, conveniently arranged, quite compact, and yet possessing great variety of outline. The walls are of brick, and the basement-ashlar, water-table, and window and door dressings, of cut stone. The roof is covered with purple slate, and additional effect could be gained for the exterior by adding an observatory.

The first story contains spacious halls, parlor, sitting-room, dining-room, chamber, kitchen, pantry, store-room, &c., and a bath-room. In the second story are nine sleeping-rooms, library, halls, and closets; one of the bed-rooms could be made into a bath-room, if desired. The attic of main part contains a water-tank, and could be finished and converted into sleeping and store rooms.

A shows the main cornice—and the rear cornices are to be made like this, but of less dimensions; B, the front porch; C, the railing on the roof of porch; D, the finish on main roof; E, the piazza; and F, the bay-window cornice.

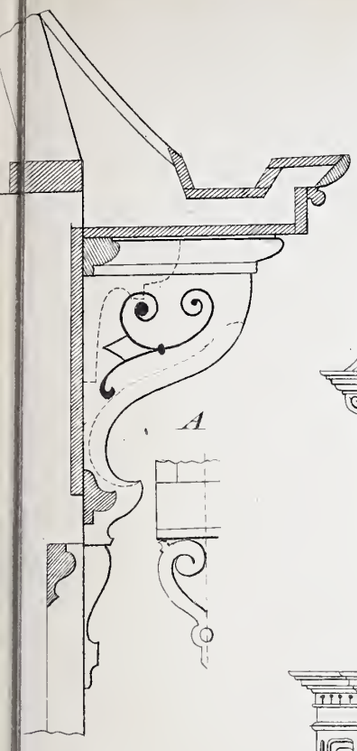
Scale of plans and elevations, $\frac{1}{8}$ in. to the foot. Scale of details, $\frac{3}{4}$ in. to the foot.

PLATES 14, 15.

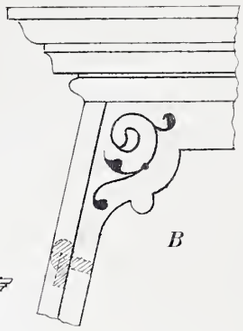
Plates 14 and 15 show the plans and elevations of a dwelling recently erected in the village of West Troy, N. Y., for James F. Phelps. The walls are of brick, with brown-stone dressings. The roof of main part is curved, and the steep portion covered with slate. The rooms are conveniently arranged, but of moderate dimensions. These could be enlarged without changing the general character of the house. The first story contains hall, parlor, sitting-room, library, dining-room, kitchen, pantries, closets, &c.; and the second story has six chambers, a bath-room, and a good number of closets. The third story of main part can be arranged the same as the second story, if desired, as the steep roof renders all the floor surface of the attic or third story available.

A shows the main cornice; B, the finish at top of steep roof; C, the dormer-windows; D, the window caps; and G, the piazza. Features, quite like the cornice of rear part, and of bay-window and scrolls in the main cornice, can be found in other portions of this work.

Scale of plans and elevations, $\frac{1}{8}$ in. to the foot. Scale of details, $\frac{3}{4}$ in. to the foot.

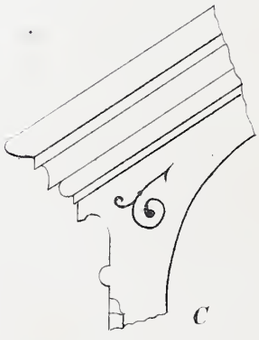


A

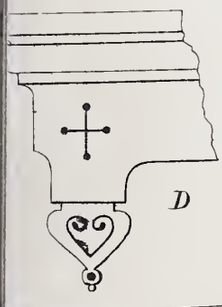


B

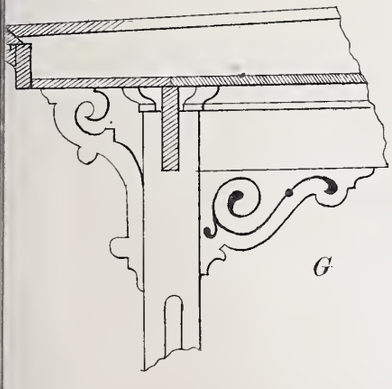
FRONT ELEVATION.



C

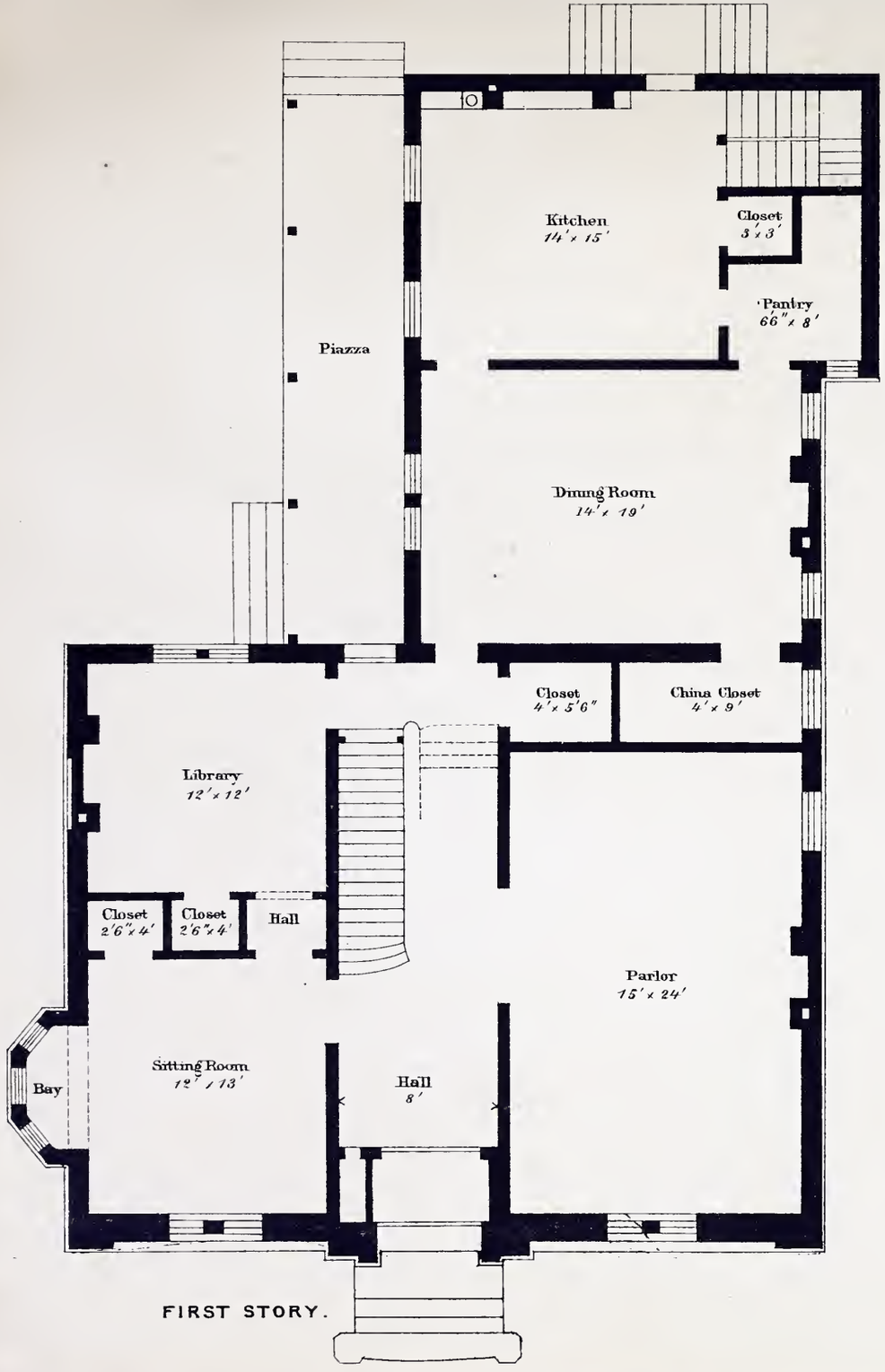


D

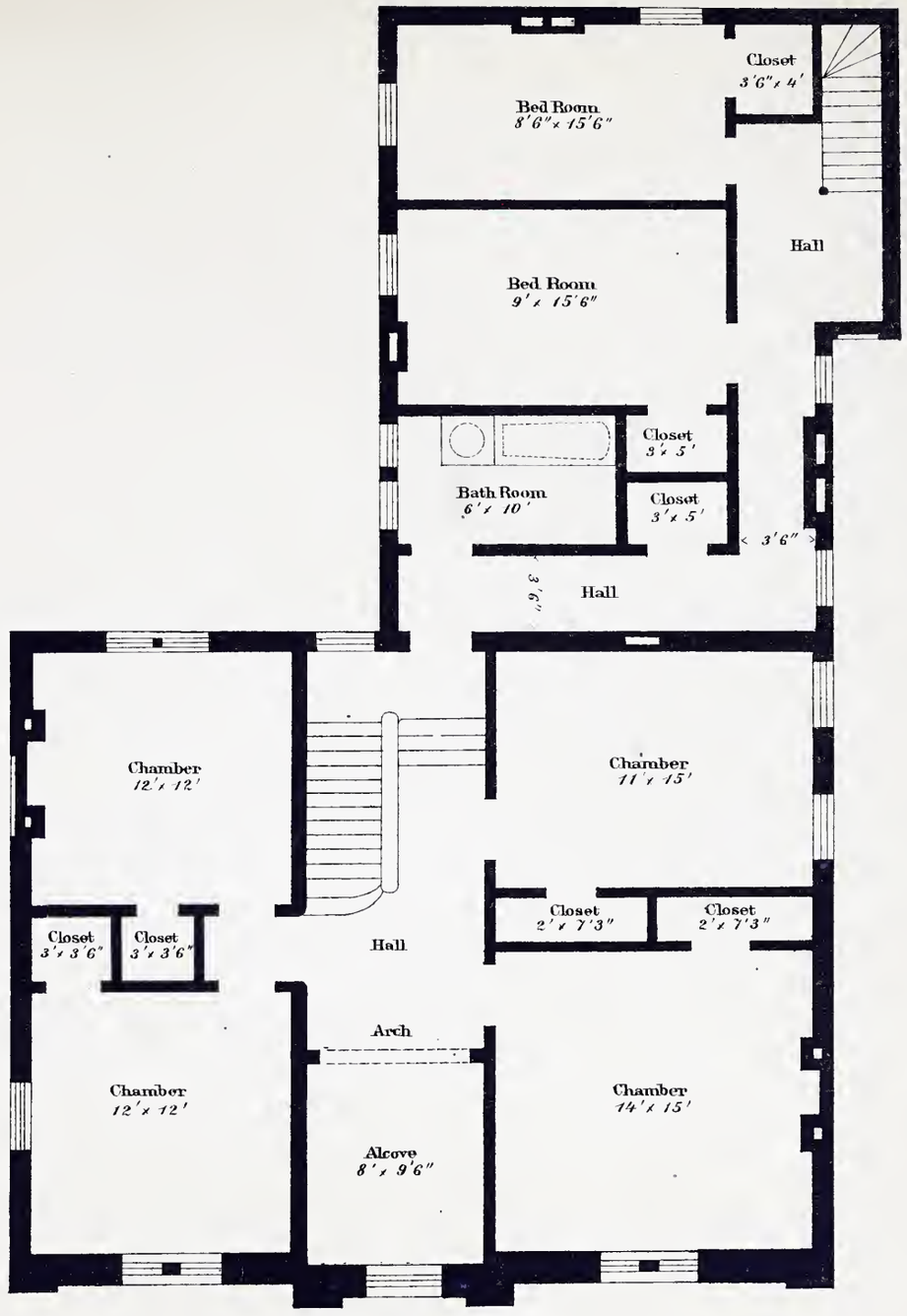


G

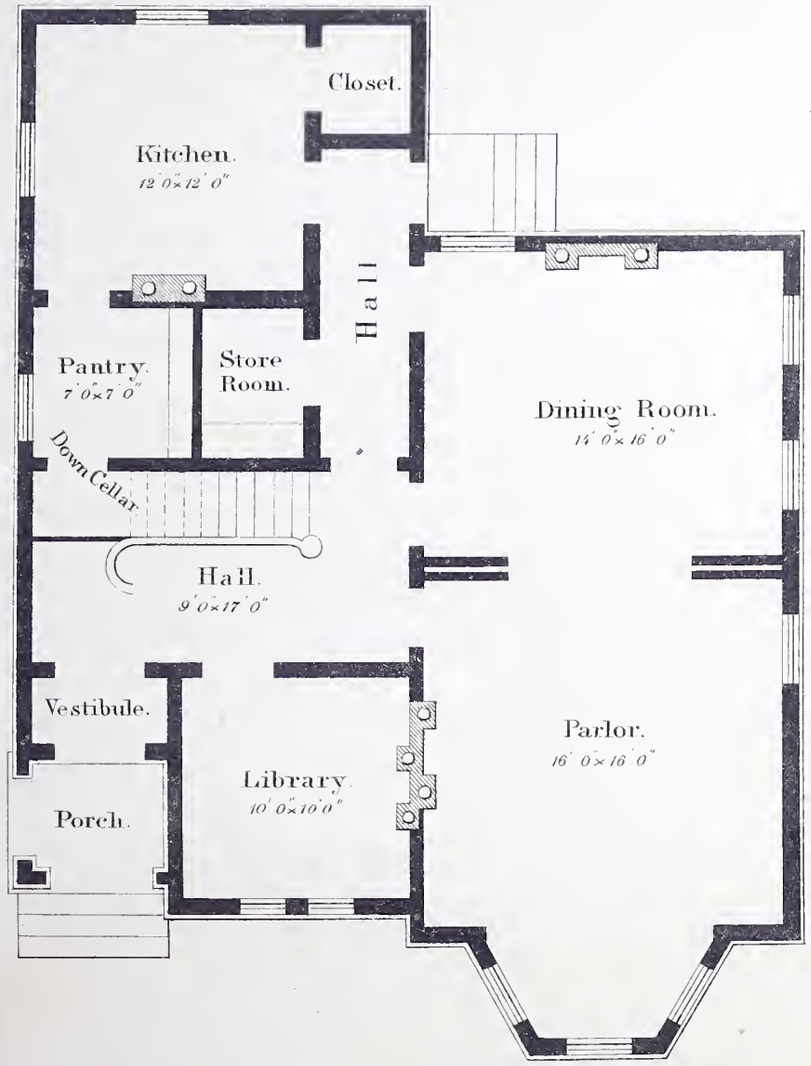
SIDE ELEVATION.



FIRST STORY.

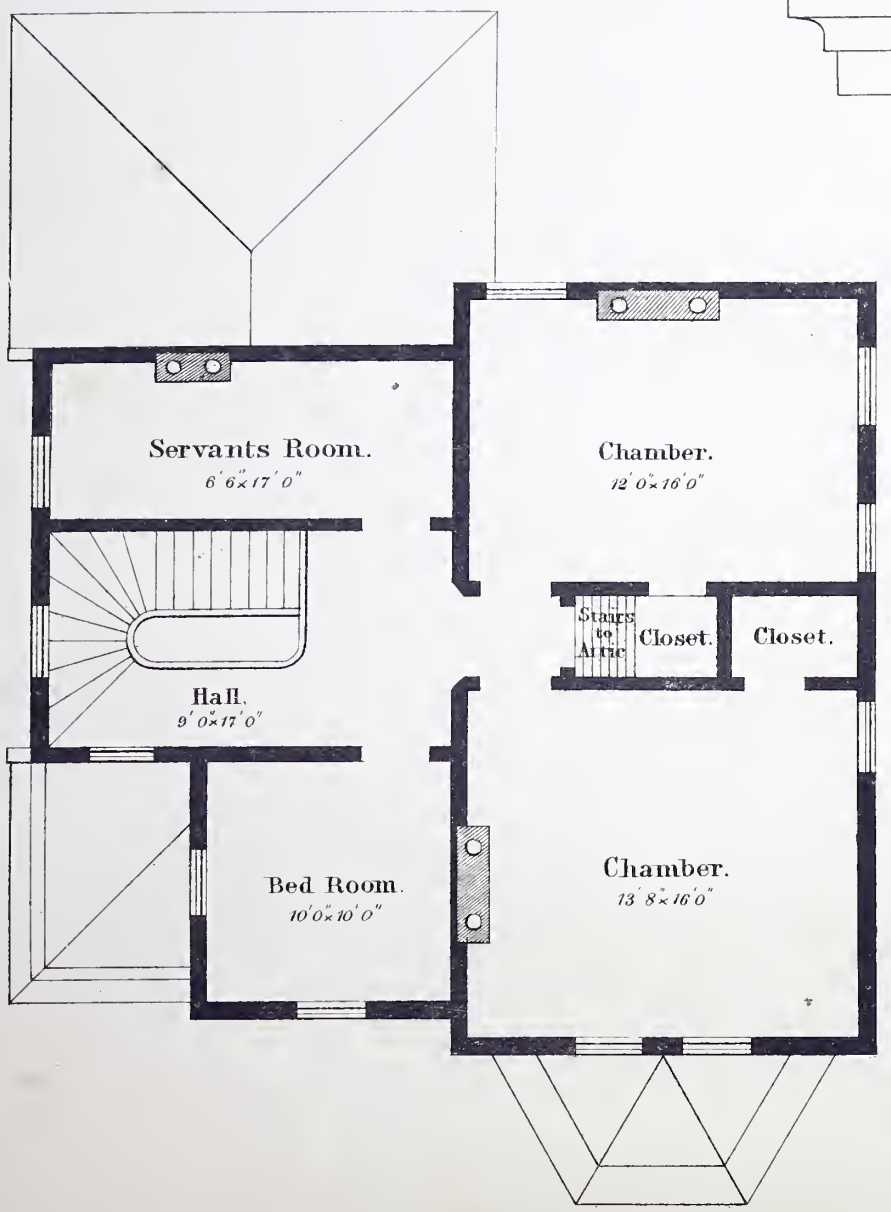


SECOND STORY.

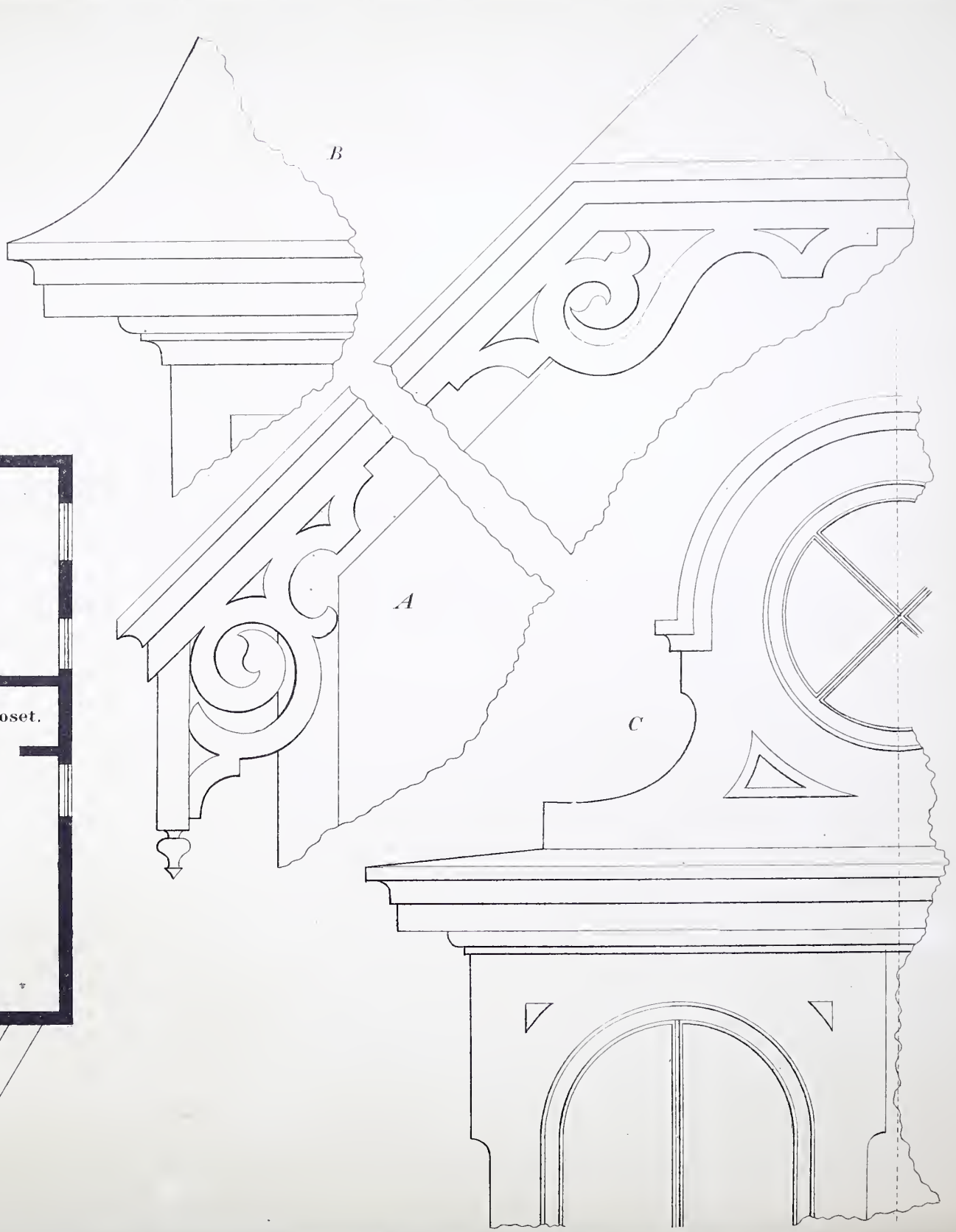


FIRST ELEVATION.

FRONT ELEVATION.



SECOND FLOOR.



PLATES 16, 17.

PLATES 16 and 17 give the elevation, plans, and exterior details of a frame dwelling-house of medium dimensions. The first story contains parlor, dining-room, library, halls, kitchen, pantries, &c.; and in the second story are four sleeping-rooms and closet. A shows the details of cornice; B, the tower cornice; C, the details of front gable-windows.

The house is designed to be constructed of wood, but it is equally adapted for brick or stone. The roof, which is an important feature, would look best if covered with cut slate in bands of two colors.

Scale of plans and elevations, $\frac{1}{8}$ in. to the foot. Scale of details, $\frac{3}{4}$ in. to the foot.

PLATE 18.

PLATE 18 shows the front elevation and the plans of the several stories of a city residence of moderate cost. The basement has a kitchen, store-room, pantry, and cellar; the first story, a dining-room, sitting-room, hall, and small library; the second story, a parlor, bath-room, chamber, and closet; the third story, four sleeping-rooms and four closets. An enclosed dumb-waiter leads from the kitchen to the dining-room.

The building is 22 × 37 ft. Several houses arranged in accordance with this design have been erected in Troy, N. Y., and are considered model houses, when their cost and small dimensions are considered. Such houses, of course, are adapted for blocks, or narrow lots, only.

A shows the details of the cornice; B, the key and spring stones of the windows; C, the window-sills and corbels; and D, the door-cap.

Scale of elevations and plans, $\frac{1}{8}$ in. to the foot. Scale of details, $\frac{3}{4}$ in. to the foot.

FIRST STORY

Library.
8 x 10'

Dining Room.
12 x 16'

D.W. Closet.

China C.
3 x 6

Sitting Room.
13 x 15

Hall.
7'

SECOND FLOOR.

Bath R.
8' 6" x 8'

Chamber.
12 x 14

Closet.
5 x 6'

Parlor.
15 x 20' 6"

THIRD FLOOR.

Bed Room.
8 x 8' 6"

Chamber.
12' 6 x 15

Hall.

Closet.
4 x 6

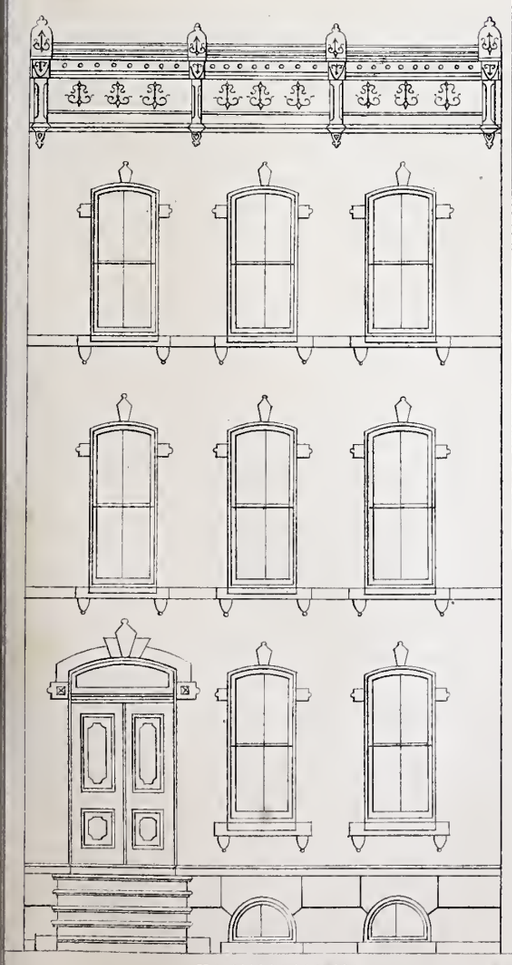
Closet.
4 x 6

Closet.
3 x 4

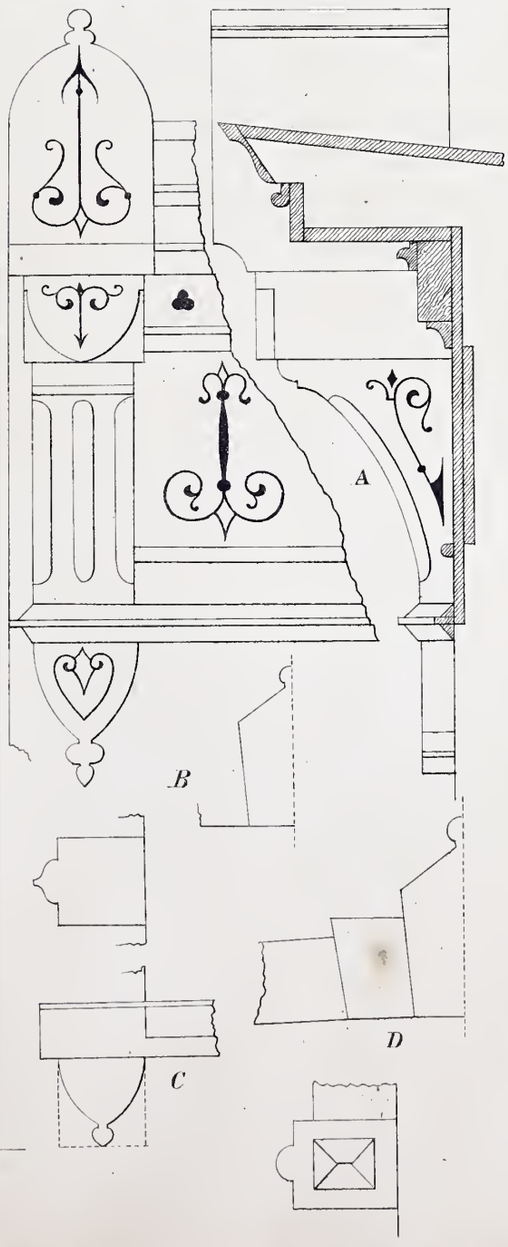
Closet.
2½ x 4

Bed Room.

Chamber.
12' 6 x 15



ELEVATION.



Kitchen.
14 x 16'

Store R.
6' 6 x 9' 6"

Pantry
4 x 7

D.W.

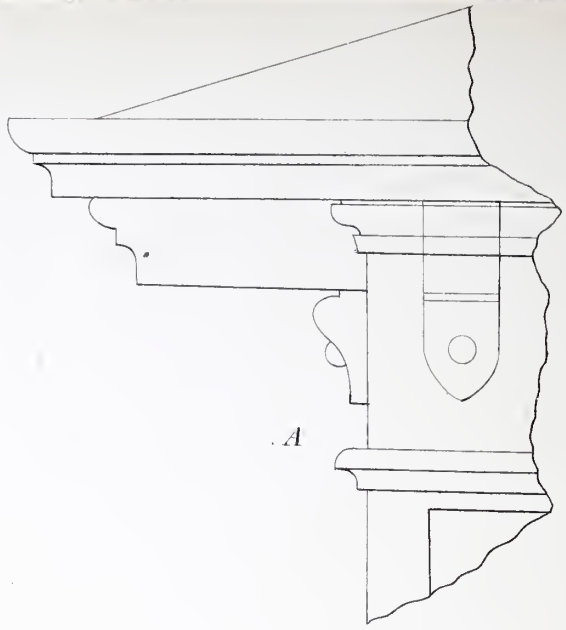
Cellar.
13 x 13' 6

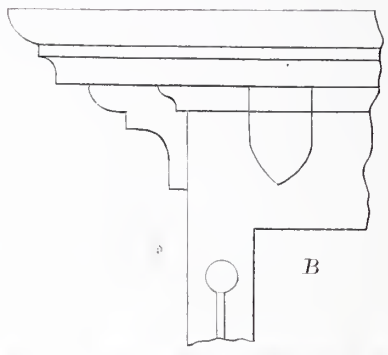
Hall
7' 6"

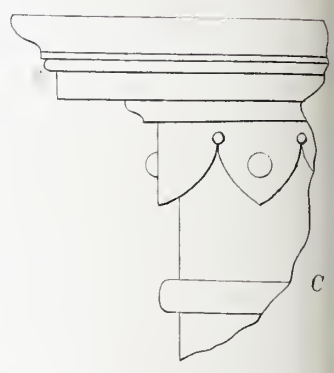
Area.

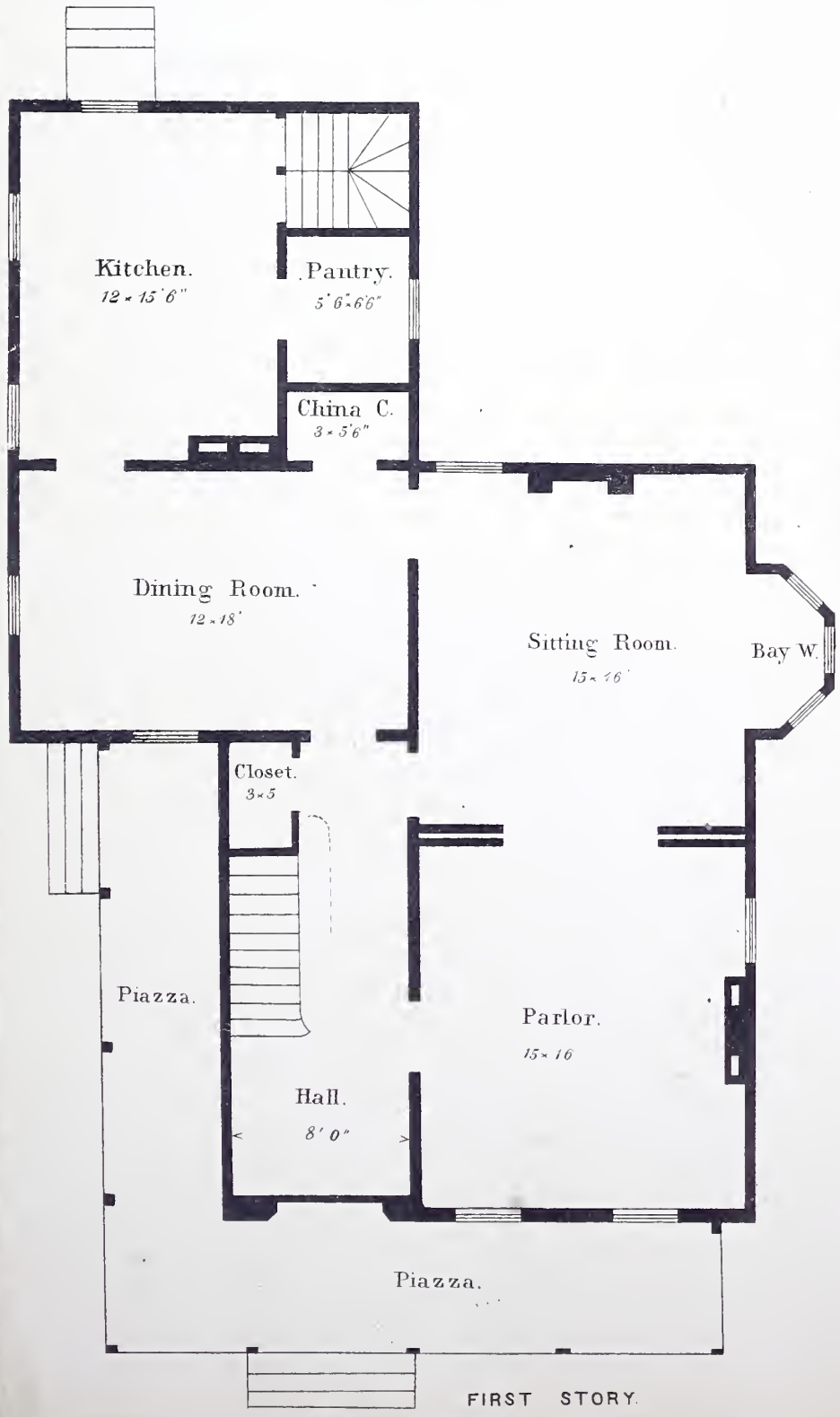
BASEMENT.

ELEVATION.









FIRST STORY.

SECOND STORY.

PLATE 19.

PLATE 19 shows the plans, elevation, and details of a two-story frame dwelling, designed for C. T. Whittaker, of North Adams, Mass. All its features are plain and cheap, and at the same time sufficiently effective to give a good appearance to the building. The first story is composed of parlor, sitting-room, dining-room, kitchen, hall, pantries, &c. The second story contains five sleeping-rooms, halls, and closets. A shows the cornices; B, the piazza; C, the bay-window cornice. All are made plain and bold, and easy of construction. The roof is to be covered with tin, and the outside of frame should be sheathed with clapboards, or matched ceiling.

Scale of plans and elevation, $\frac{1}{8}$ in. to the foot. Scale of details, $\frac{3}{4}$ in. to the foot.

PLATES 20, 21, 22, 23.

This house with Mansard roof has been designed in detail for W. H. Whitaker, Esq., of Toledo, O. The proposed site is on the bank of the Maumee river, with a fine view of the harbor and Lake Erie. The plans, details, and specifications have all been prepared this year, with the intention of building next year. This method is generally more satisfactory, as it gives the architect and owner ample time to design, plan, and estimate the cost.

The walls of the building are intended to be brick with stock-brick facing; the details for caps, and sills of doors and windows, of sandstone.

The main feature in the distribution of the rooms, first floor, is to place the principal living-rooms in the best part of the house, the sitting-room, drawing-room, and library being located accordingly; the parlor at the left of the main hall to be used as a reception room. The halls are of good width. The transverse hall, cutting off the dining-room and kitchen from the main part of the house, gives a side porch, back hall, and staircase, with convenient egress to the grounds on either side of the house.

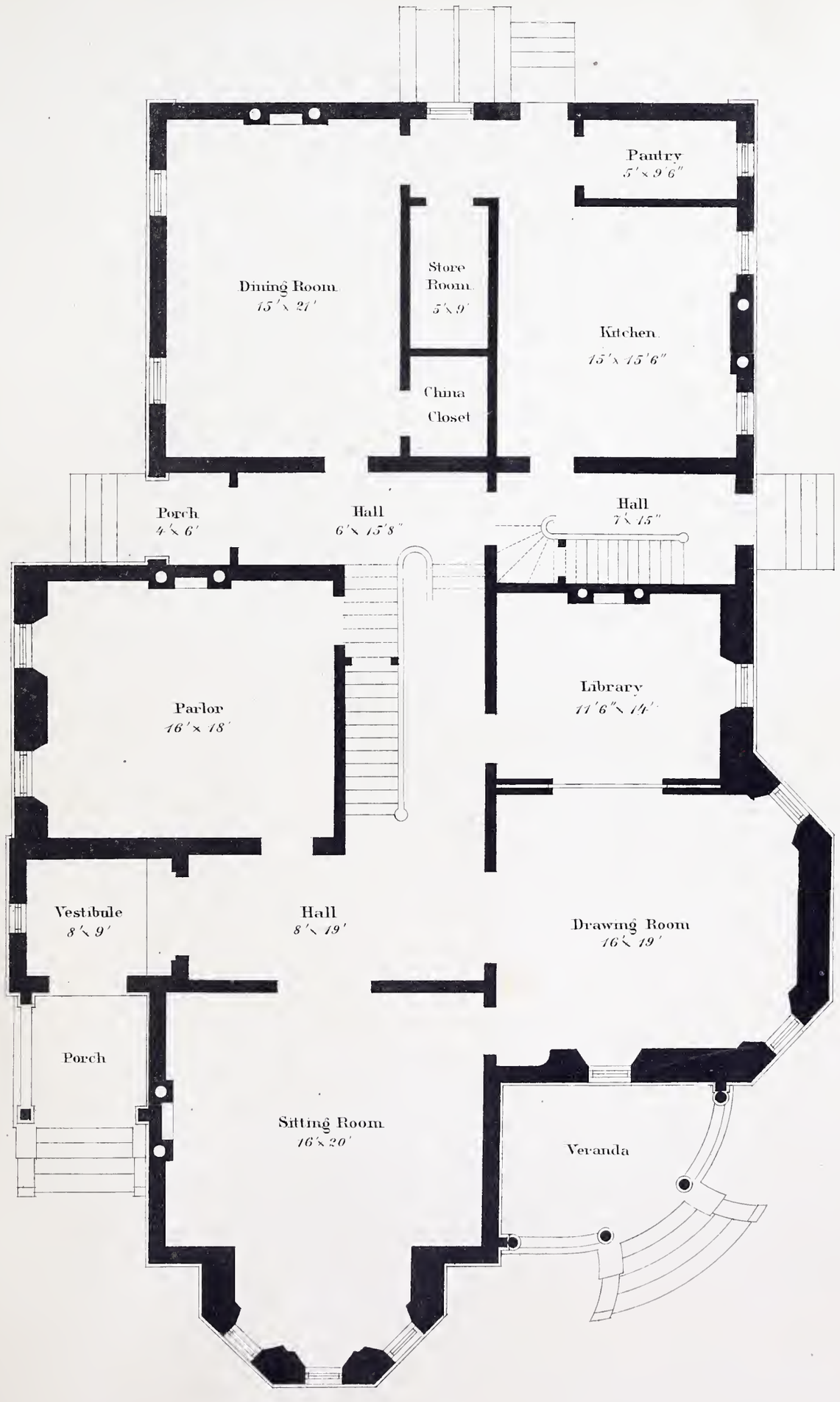
The second floor is divided into commodious chambers, with closets for each, and bath and dressing-room at the head of the main staircase. The second floor of the rear part, being finished off in the roof part, is divided into rooms for servants. The third floor, or roof of the main part, can also be finished off for more chambers, if desired.

The roofs of the curved part are intended to be covered with ornamental slate; the crest of the roof to be made of iron; the cornices of main house, verandas, and bay-windows to be of wood.

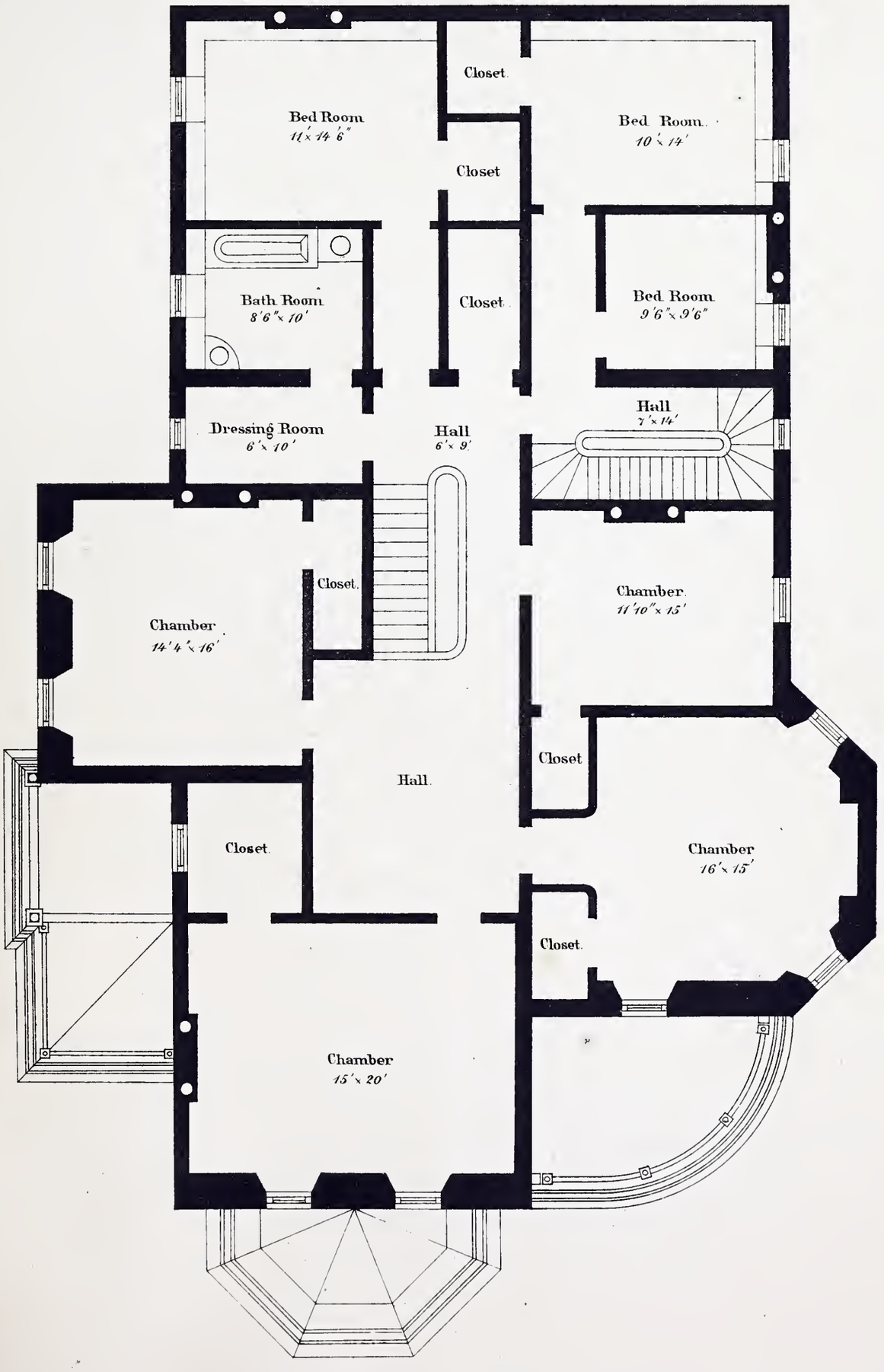
The details of Plates 20 and 21 are on a scale of three-fourths of an inch to the foot. Fig. A, Plate 20, shows detail of main cornice; Fig. B, the front of dormer-window. Plate 21, Fig. A, shows detail of rear cornice, and Fig. B, cornice of veranda, capital of column, &c. The drawings of first and second floors, with front and side elevations, are drawn upon a scale of an inch to 8 feet.

FRONT ELEVATION.

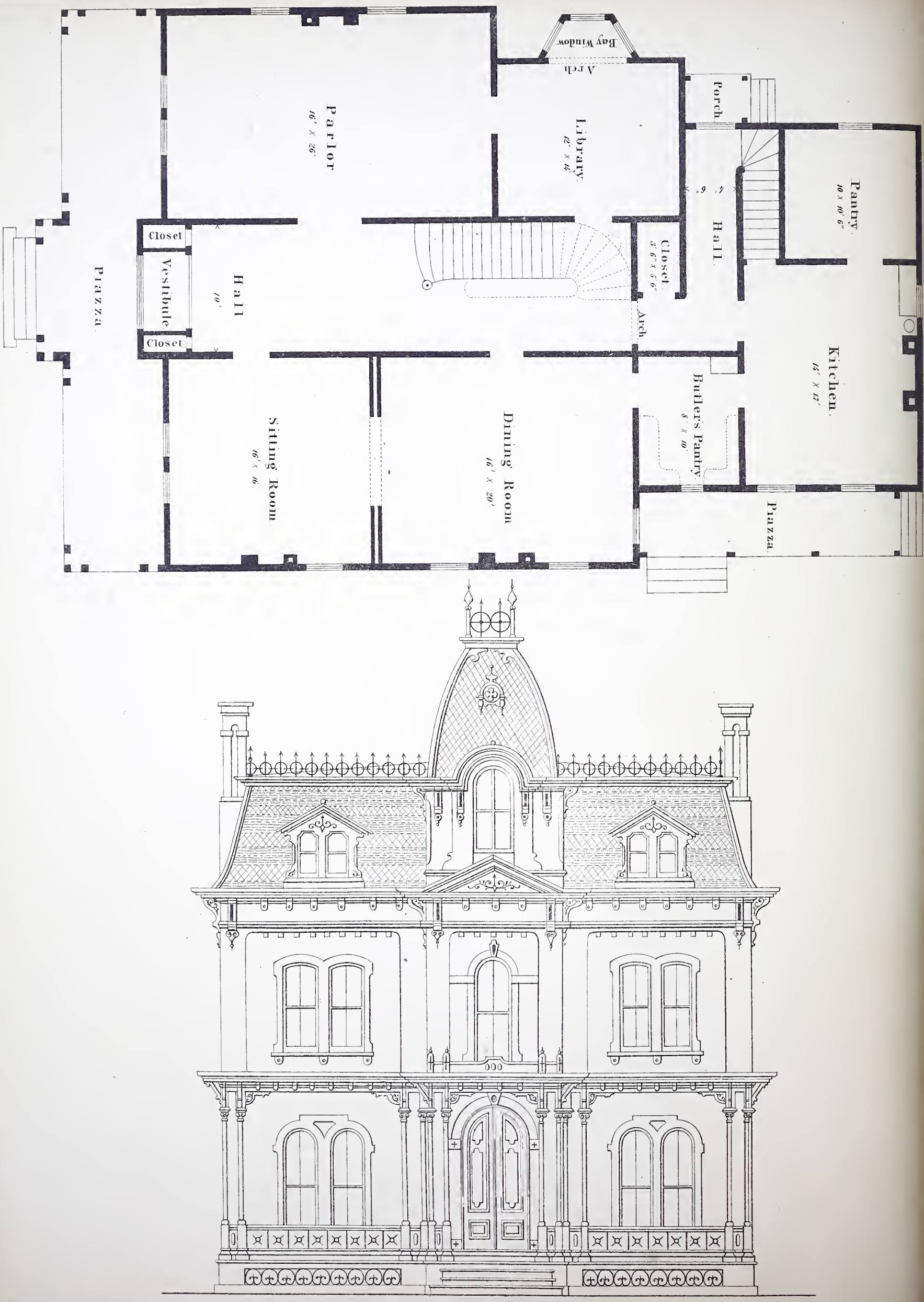
SIDE ELEVATION.


Pantry
5' x 9'6"
Dining Room
15' x 21'
Store Room
5' x 9'
Kitchen
15' x 15'6"
China Closet
Porch
4' x 6'
Hall
6' x 15'8"
Hall
7' x 15"
Parlor
16' x 18'
Library
11'6" x 14'
Vestibule
8' x 9'
Hall
8' x 19'
Drawing Room
16' x 19'
Porch
Sitting Room
16' x 20'
Veranda

FIRST FLOOR.

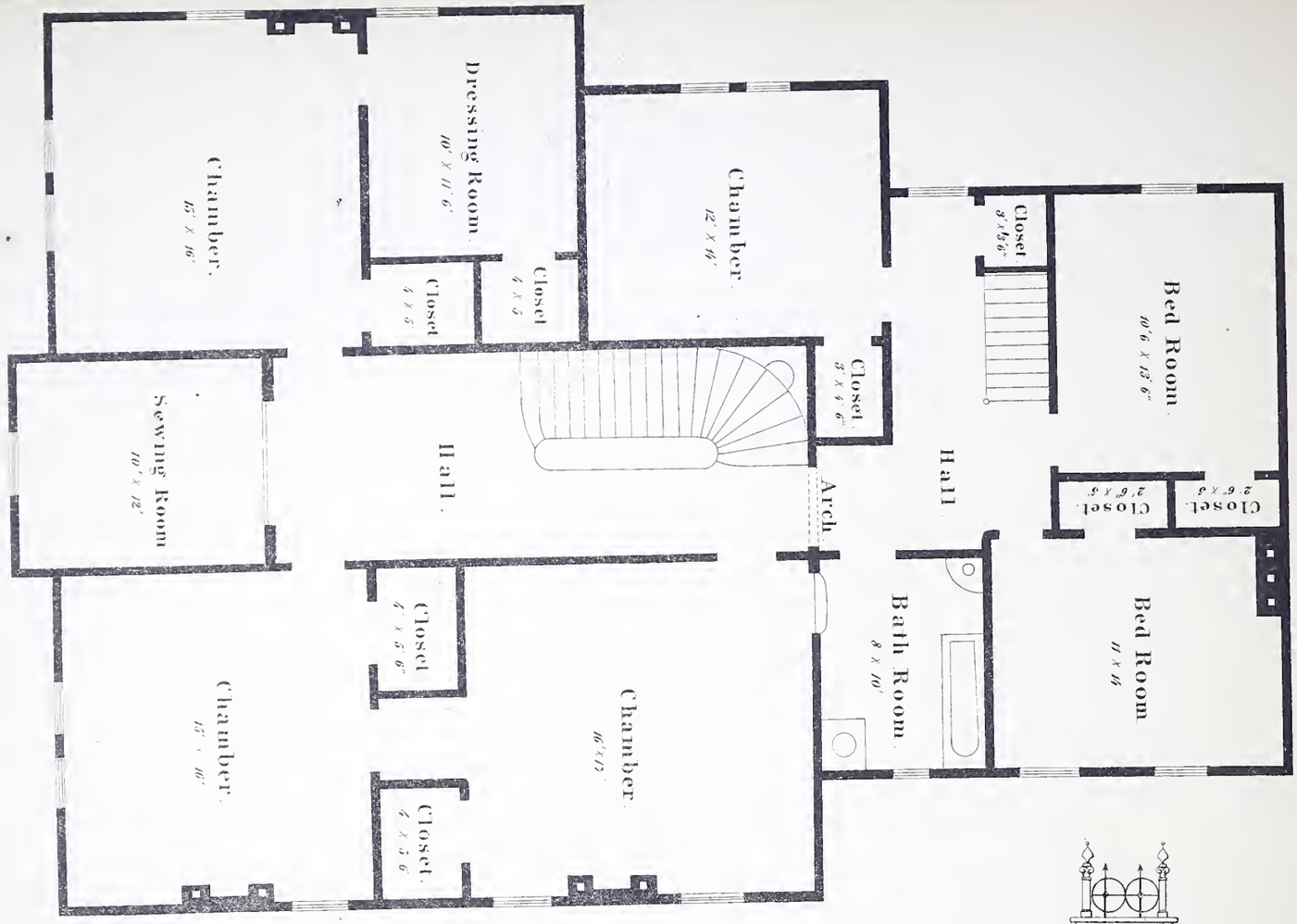


SECOND FLOOR.



FIRST FLOOR.

FRONT ELEVATION.



SECOND FLOOR.

SIDE ELEVATION.

PLATES 24, 25.

PLATES 24 and 25 show the plans and elevations of a two-story frame dwelling-house, having a French roof. This design has been prepared, in detail, for a gentleman in Waterford, N. Y.

The first story contains parlor, sitting-room, dining-room, library, kitchen, pantries, halls, and closets, and in the second story are six sleeping-rooms, a dressing-room, sewing-room, bath-room, halls, and closets. The second story of the rear part is placed in the French roof, while the main part has a spacious attic, which could be divided into five bed-rooms, with ample closets.

Details of cornices, piazzas, window-finish, and other exterior features can be found on other plates in this work of similar design. This design, if executed with walls of brick, would look equally as well as if constructed wholly of wood.

Scale of plans and elevations, $\frac{1}{8}$ in. to the foot.

PLATES 26, 27, 28

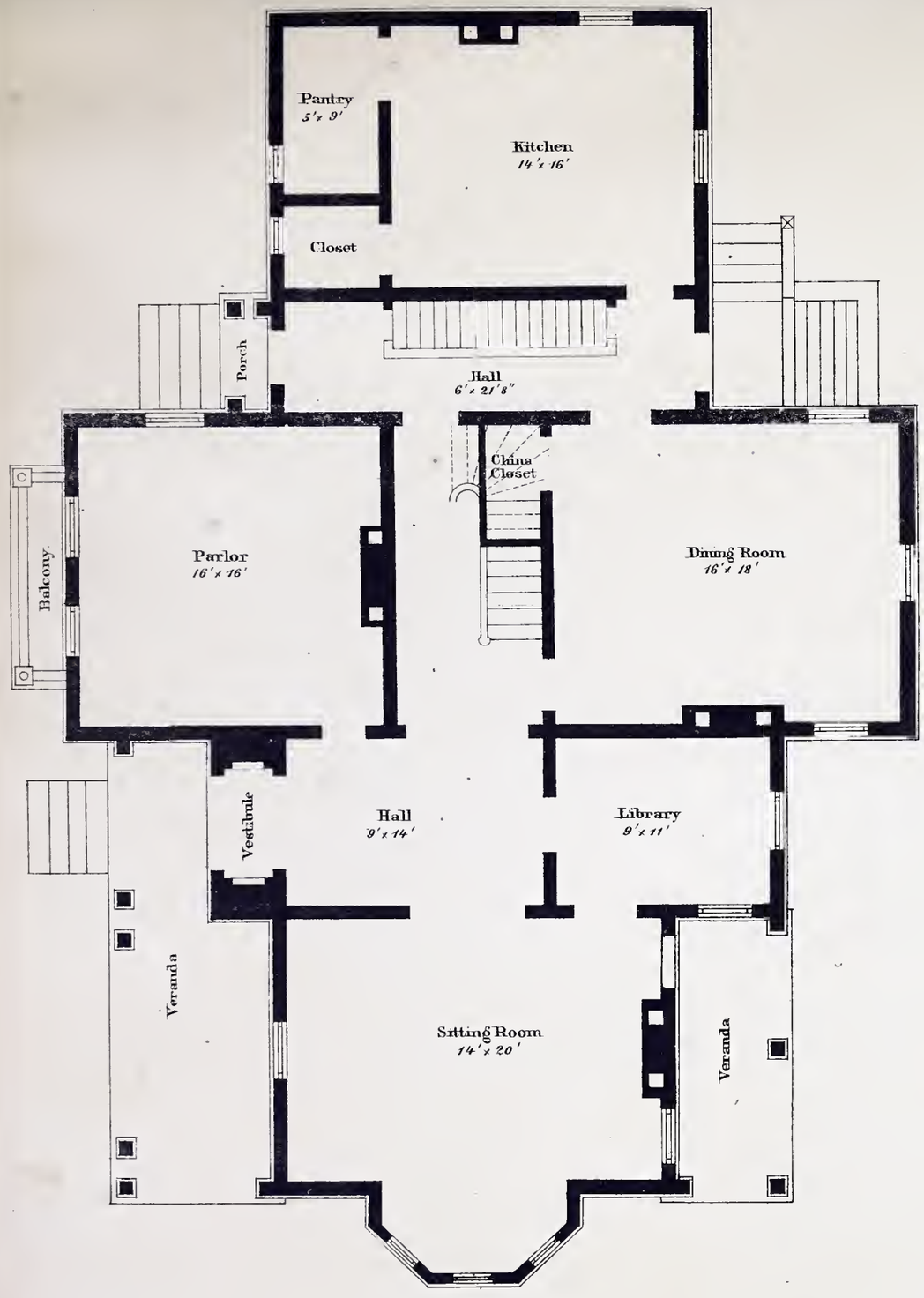
This rather spacious residence was designed for Maj.-Gen. John W. Fuller, late of the Sixteenth Army Corps. The site chosen lies between a river and a street parallel to it. Especial attention is called to the arrangement of the halls and the outlines of the elevation. The material for the building is intended to be of wood.

The details on Plates 26 and 27 are drawn upon a scale of $\frac{3}{4}$ in. to the foot. Fig. A, Plate 27, shows detail of main cornice; Fig. B shows detail of upper cornice of Mansard roof.

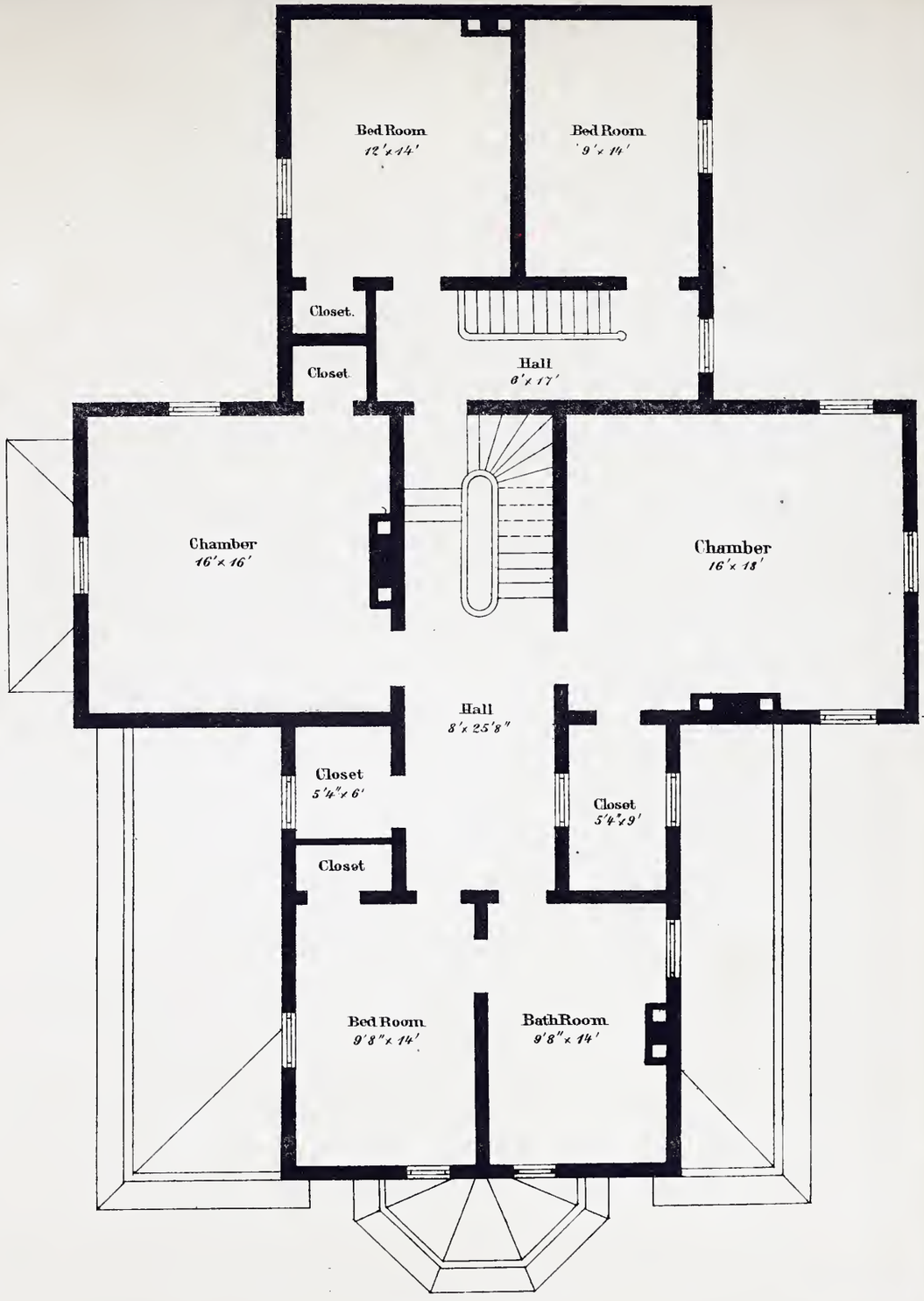
Fig. A, Plate 26, shows front of dormer-window; Fig. B shows balcony, bracket, and balustrade; Fig. C shows bracket and cornice of balcony.

RIGHT FLANK ELEVATION.

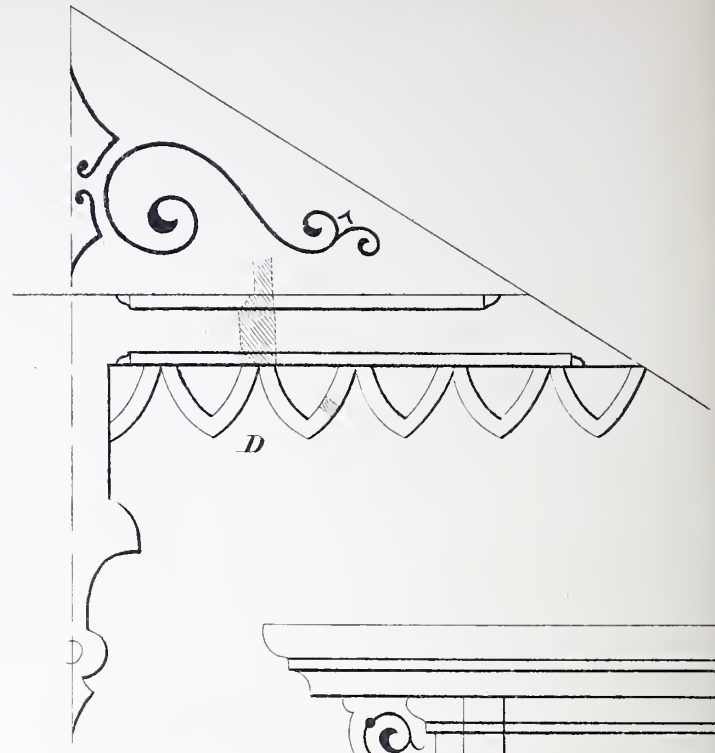
FRONT ELEVATION.

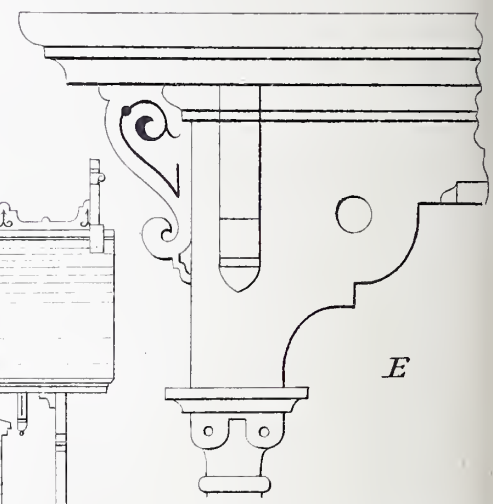


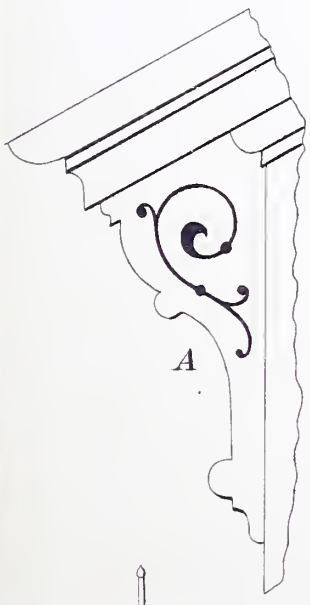
FIRST FLOOR.



SECOND FLOOR.

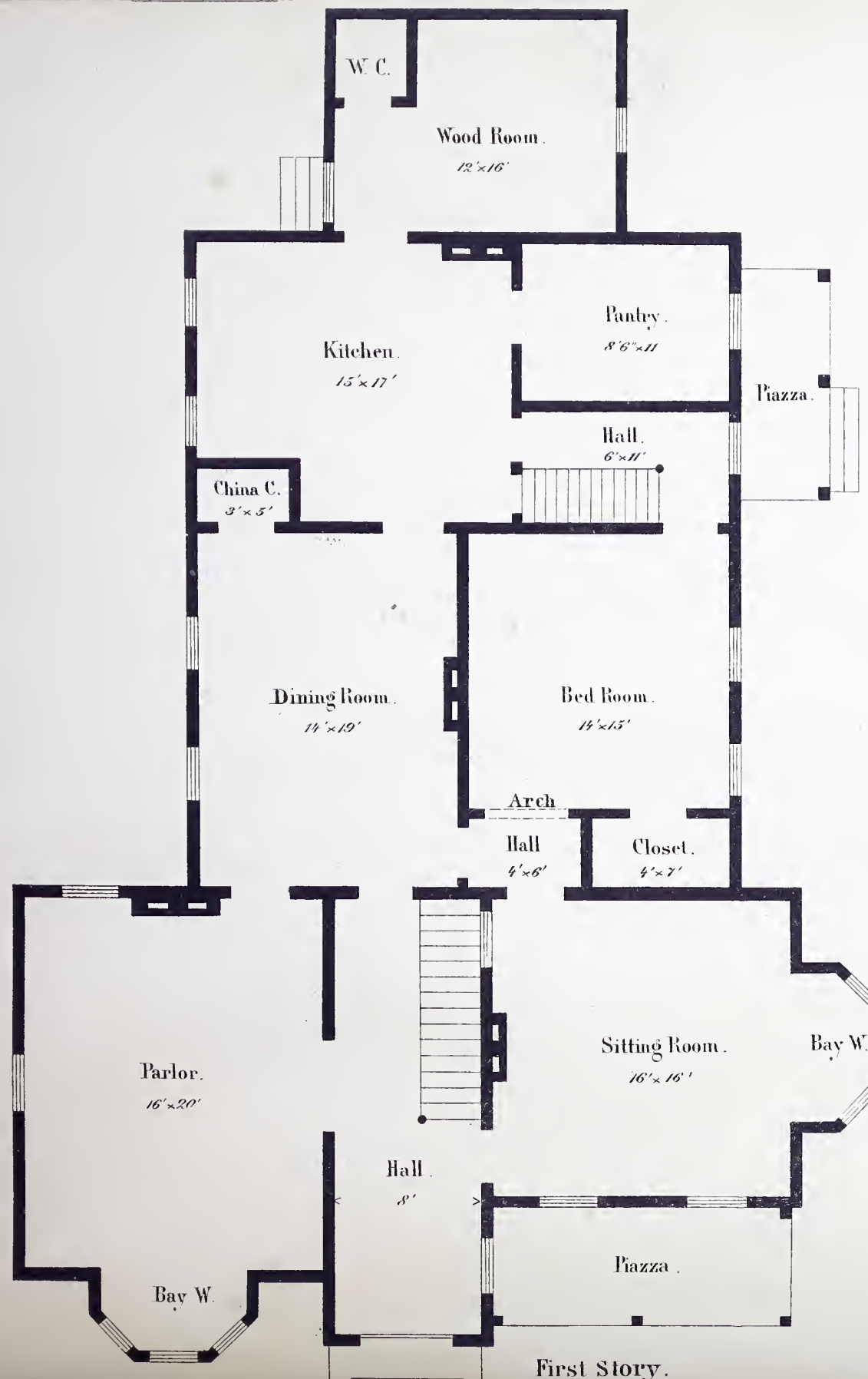




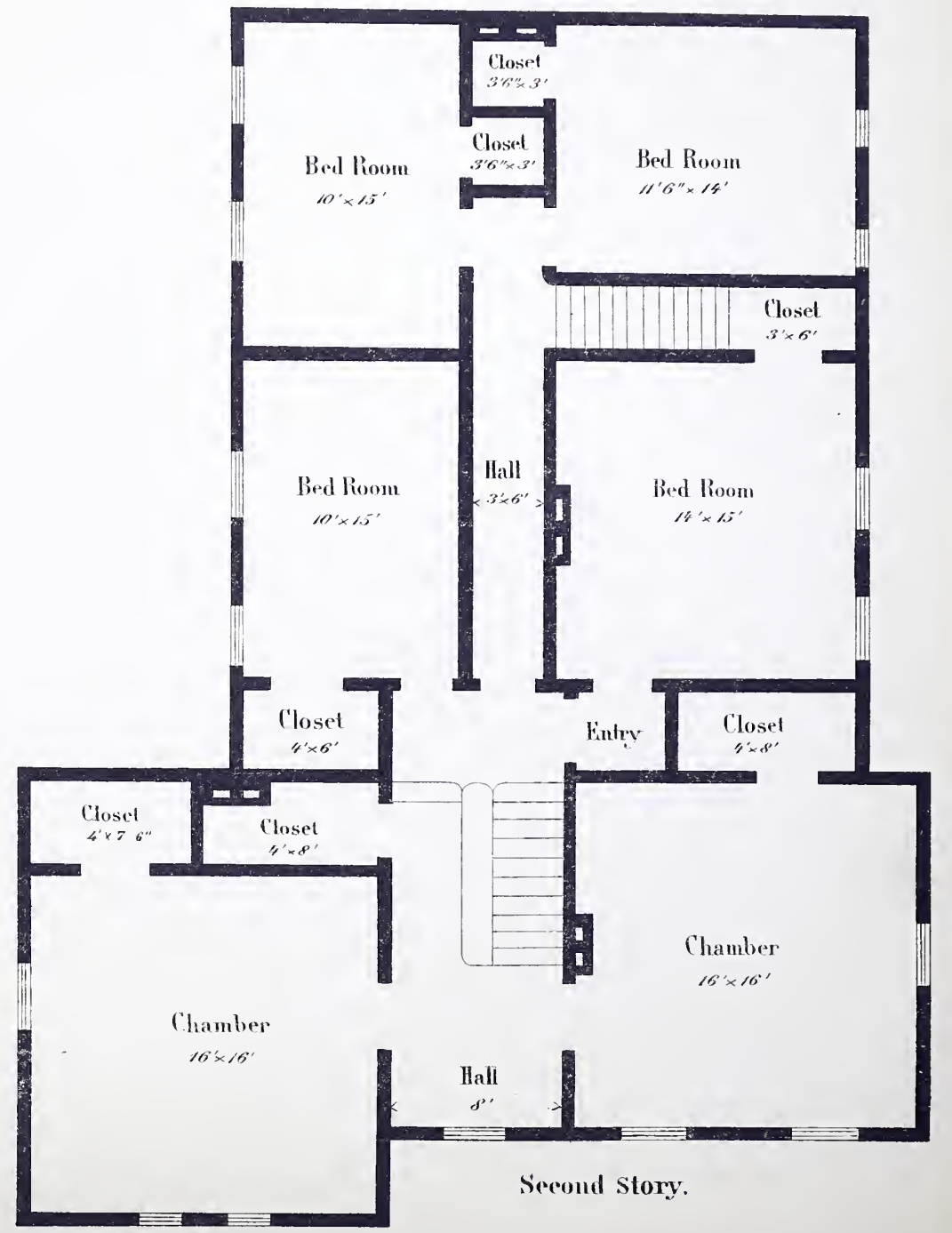


FRONT ELEVATION.

SIDE ELEVATION.



First Story.



Second Story.

PLATES 29, 30.

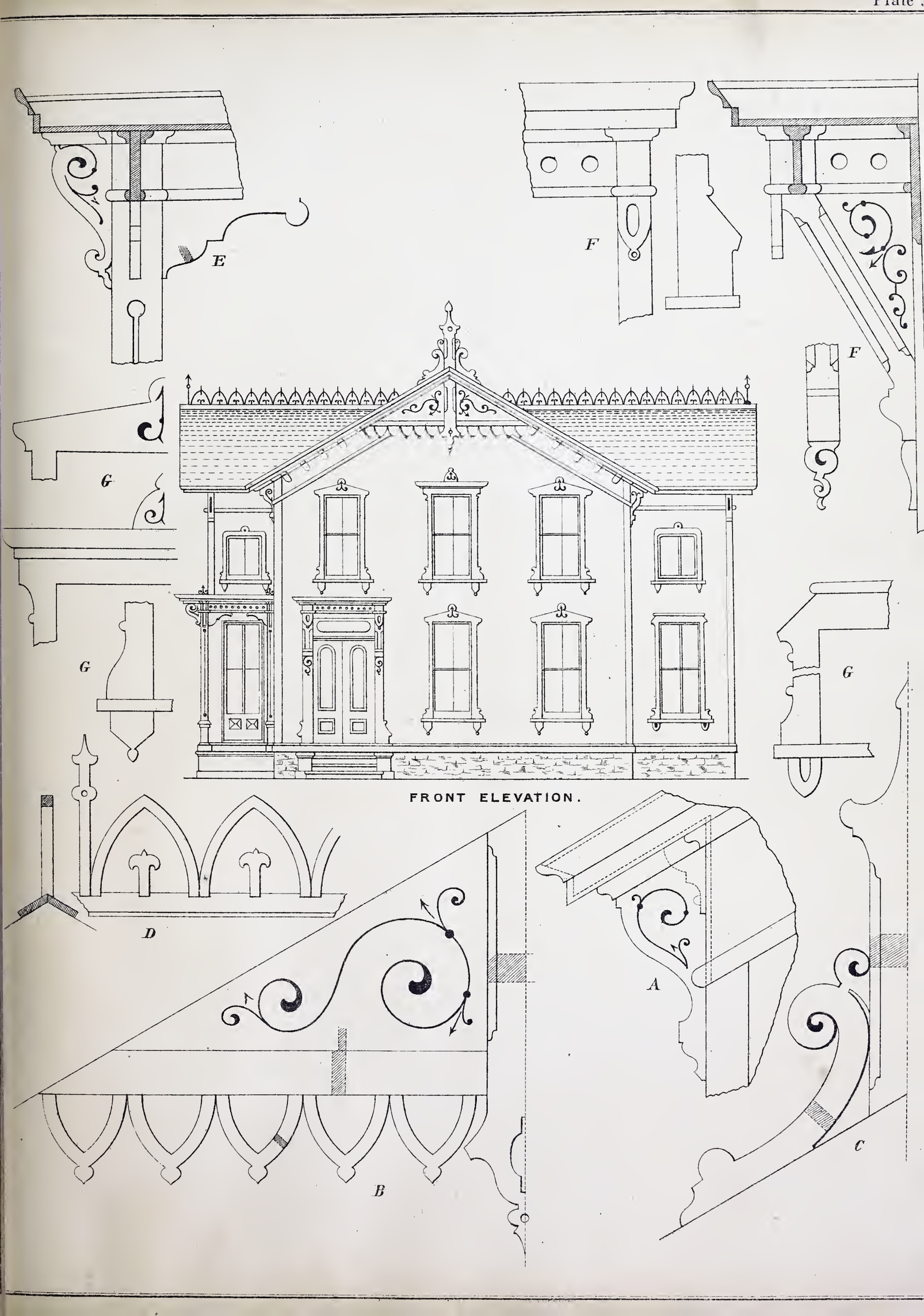
Plates 29 and 30 show the plans and elevations of a two-story frame dwelling-house, designed for a gentleman, residing in the village of Manchester, Vt. For a comfortable and tasty country residence this plan presents many admirable features. The first story contains parlor, sitting-room, dining-room, bed-room, kitchen, halls, and large pantries and closets; and in the second story are six sleeping-rooms and seven closets. The exterior is ornamented with piazzas, bay-windows, and effective cornices and gables, all of moderate cost. A shows the cornices; B and C, the finish of main gables; D, the finish of rear gables; E, the front piazza; and F, the bay-window cornice. The sides of the building should be clapboarded, and the roofs should be shingled, or covered with slate. The cresting at the ridge should be sawed from 1½ in. plank.

Scale of plans and elevations, ⅛ in. to the foot. Scale of details, ¾ in. to the foot.

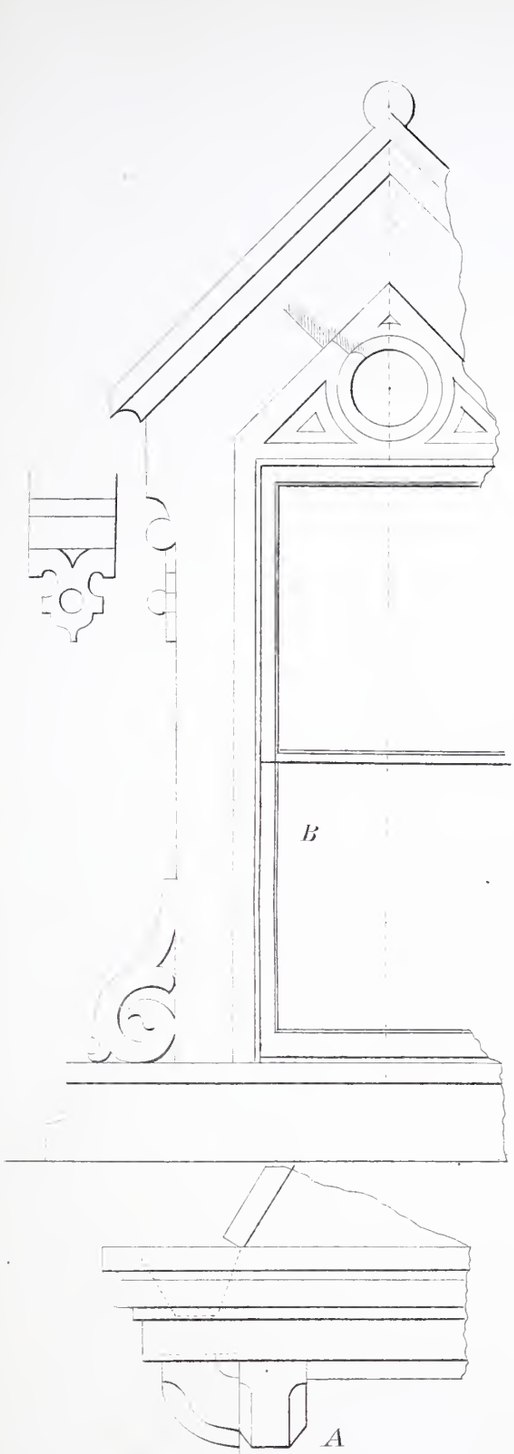
PLATES 31, 32.

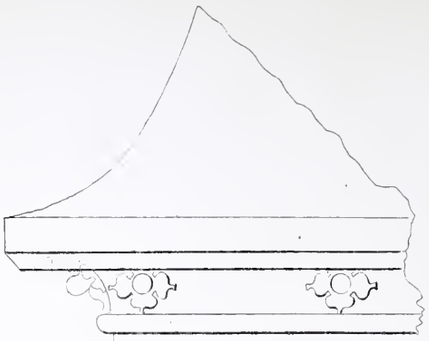
The design on Plates 31 and 32 shows a frame dwelling-house, of moderate dimensions. It was prepared for E. P. Burton, Esq., of Manchester, Vt., and is now being erected. The lower story contains hall, parlor, dining-room, chamber, kitchen, pantry, bed-room, wood-house, and closets. The second story contains six sleeping-rooms, closets, and halls. The building is to be clapboarded outside, and to have roofing of plain slate. On Plate 31, A shows a section of the cornice; B, the finish of front and rear gables; C, the scroll work surmounting said gables; D, the cresting or finish at the ridges; E, the details of piazza; F, the details of the hood over front door; F, the same; and at G, G, G, are the details of the window-casings and caps. The finish of the sides and rear of the building to be the same as that shown on front elevation. The first-story chamber can be used as a library or sitting-room.

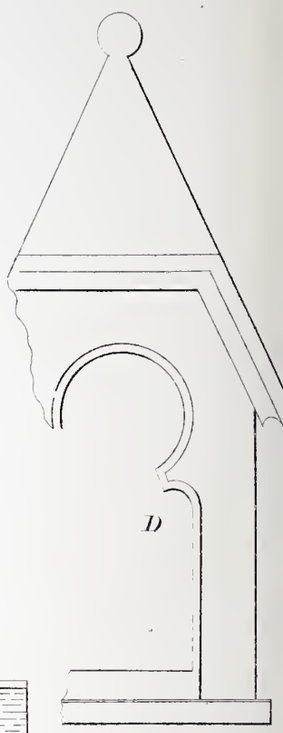
Scale of plans and elevations, $\frac{1}{8}$ in. to the foot. Scale of details, $\frac{3}{4}$ in. to the foot.


E
F
F
G
G
G
G
FRONT ELEVATION.
D
A
B
C

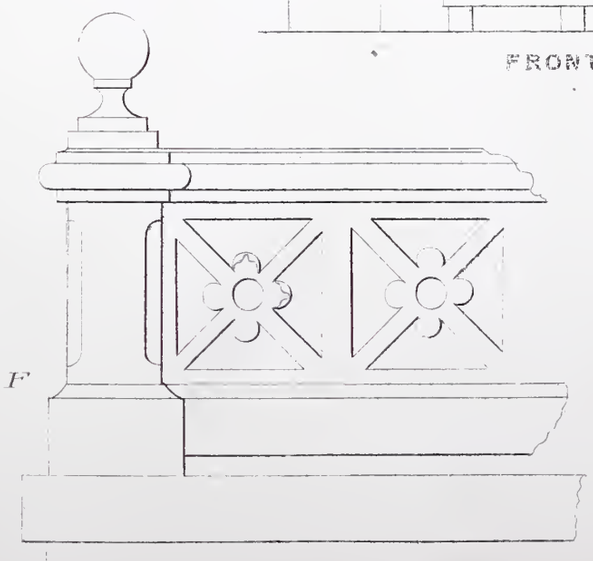
Second Story

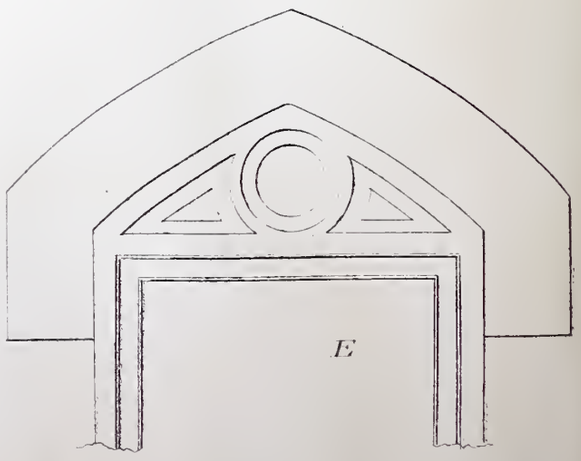


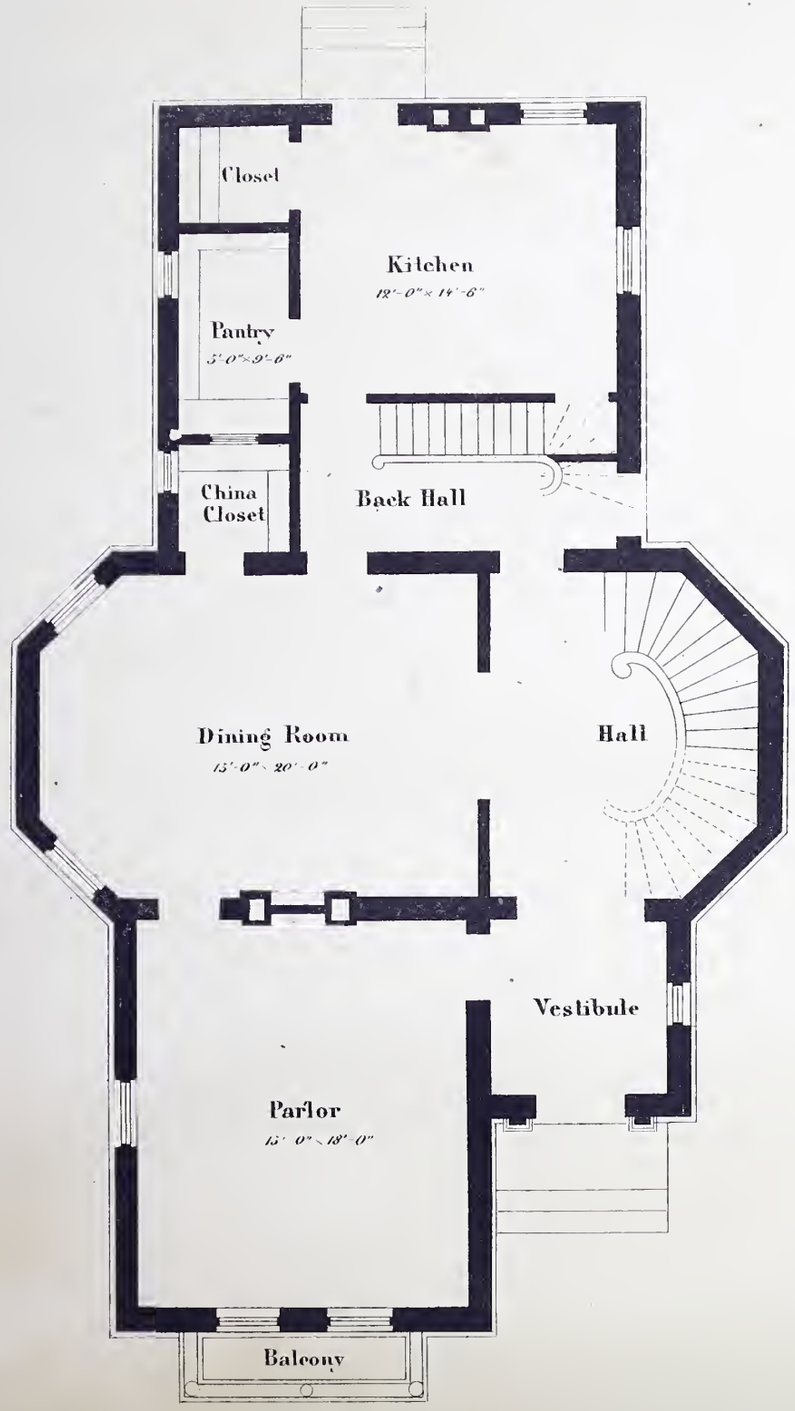




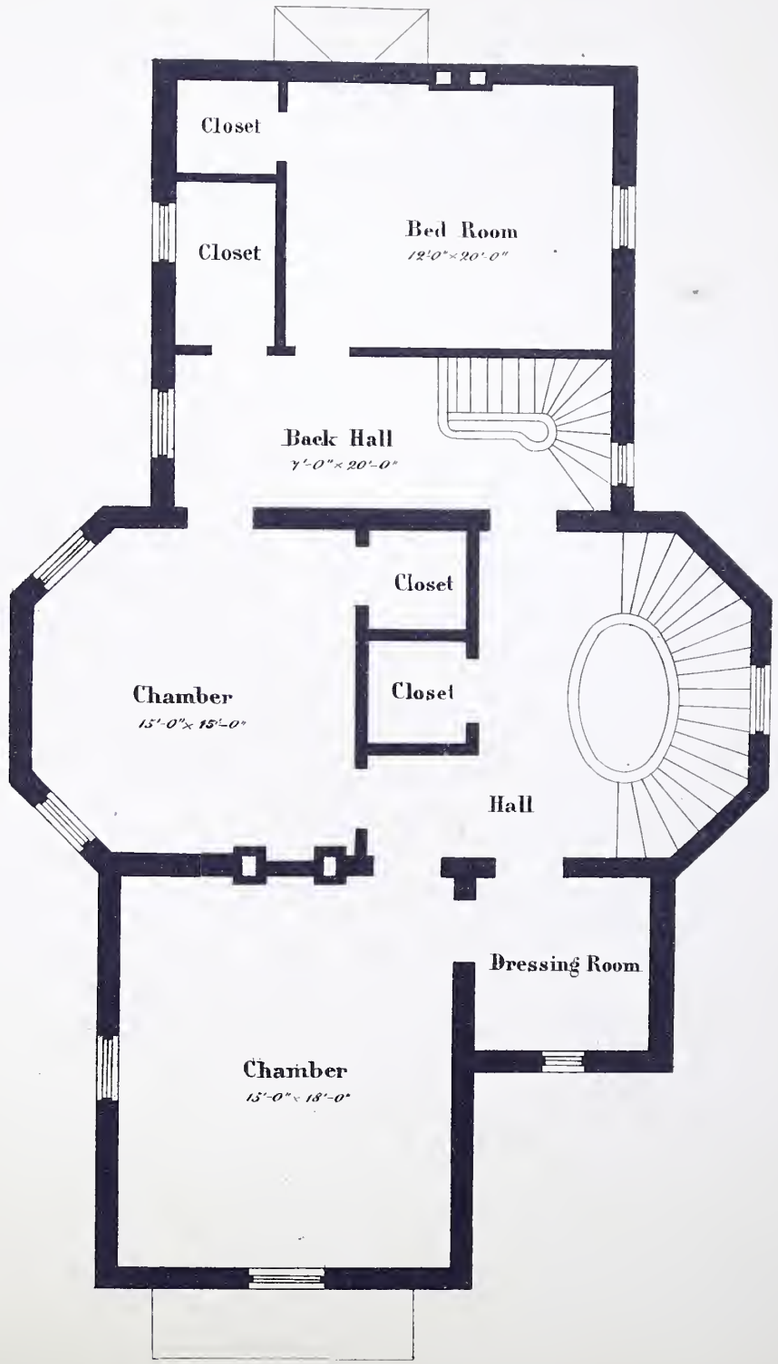
FRONT ELEVATION.







First Floor.



Second Floor.

PLATES 33, 34

This picturesque design, with its novel arrangement in plan of rooms, will make a complete and inviting cottage; the first floor being divided into parlor, dining-room, and kitchen, with liberal hall and staircase, and back hall stairs, pantry, closets, &c. The second floor has three spacious chambers, with closets off from each. The material for the house is intended to be of brick for the walls, cornice of wood, and slate roof.

The details on Plate 33 show, Fig. A, main cornice; Fig. B, dormer-window; Fig. C, cornice of tower; Fig. D, dormer of tower; Fig. E, window-cap; Fig. F, balcony balustrade.

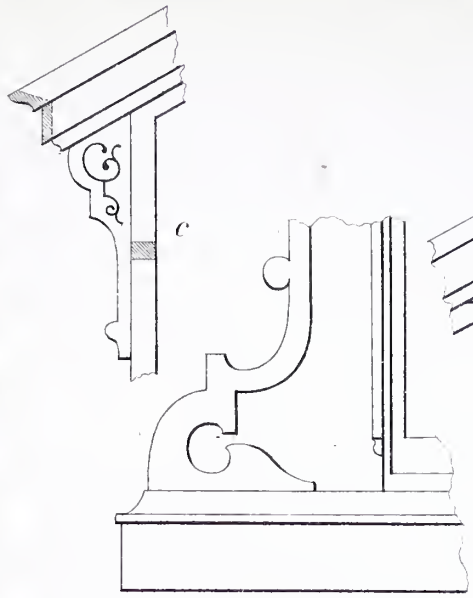
The details are drawn upon the scale of three-quarters of an inch to the foot. The plans and elevation upon a scale of an inch to eight feet.

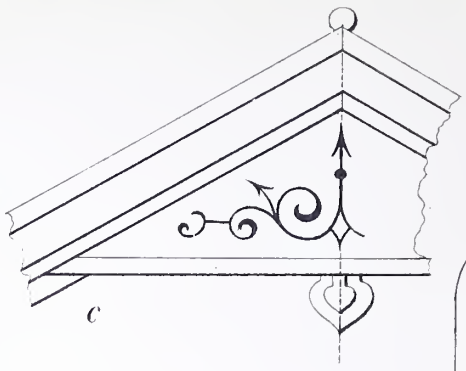
Hall
Closet
4'6" × 5'6"
Kitchen
13' × 15"
Piazza
China Closet
4' × 5'
Closet
3'6" × 4'
Dining Room
11'6" × 20'
Hall
Parlor
15' × 25'6"
Hall
8' 6"
C.
Vestibule
C.

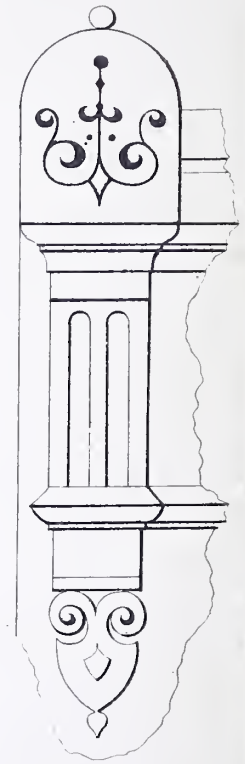
FIRST STORY.

Closet
3' × 7'6"
Bed Room
8'6" × 9'6"
Bed Room
9'6" × 10'
Hall
Closet
3 × 5
Bath Room
8'6" × 10'
Chamber.
15' × 16'
Closet
4' × 5'
Hall
Closet
2'6" × 5'
C.
C.
Hall
Sitting Room
15' × 16'
Sewing Room
8'6" × 12'

SECOND STORY.







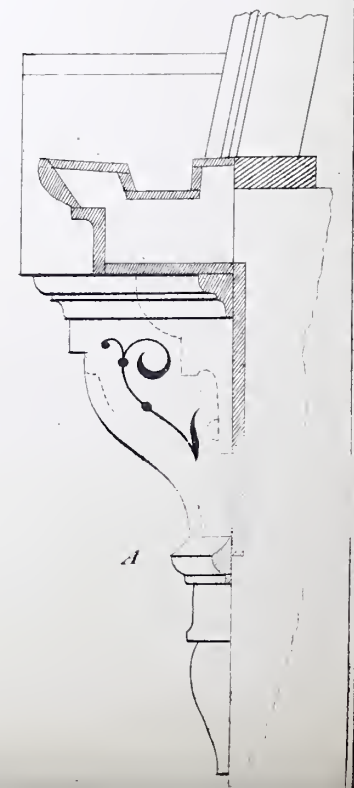


PLATE 36.

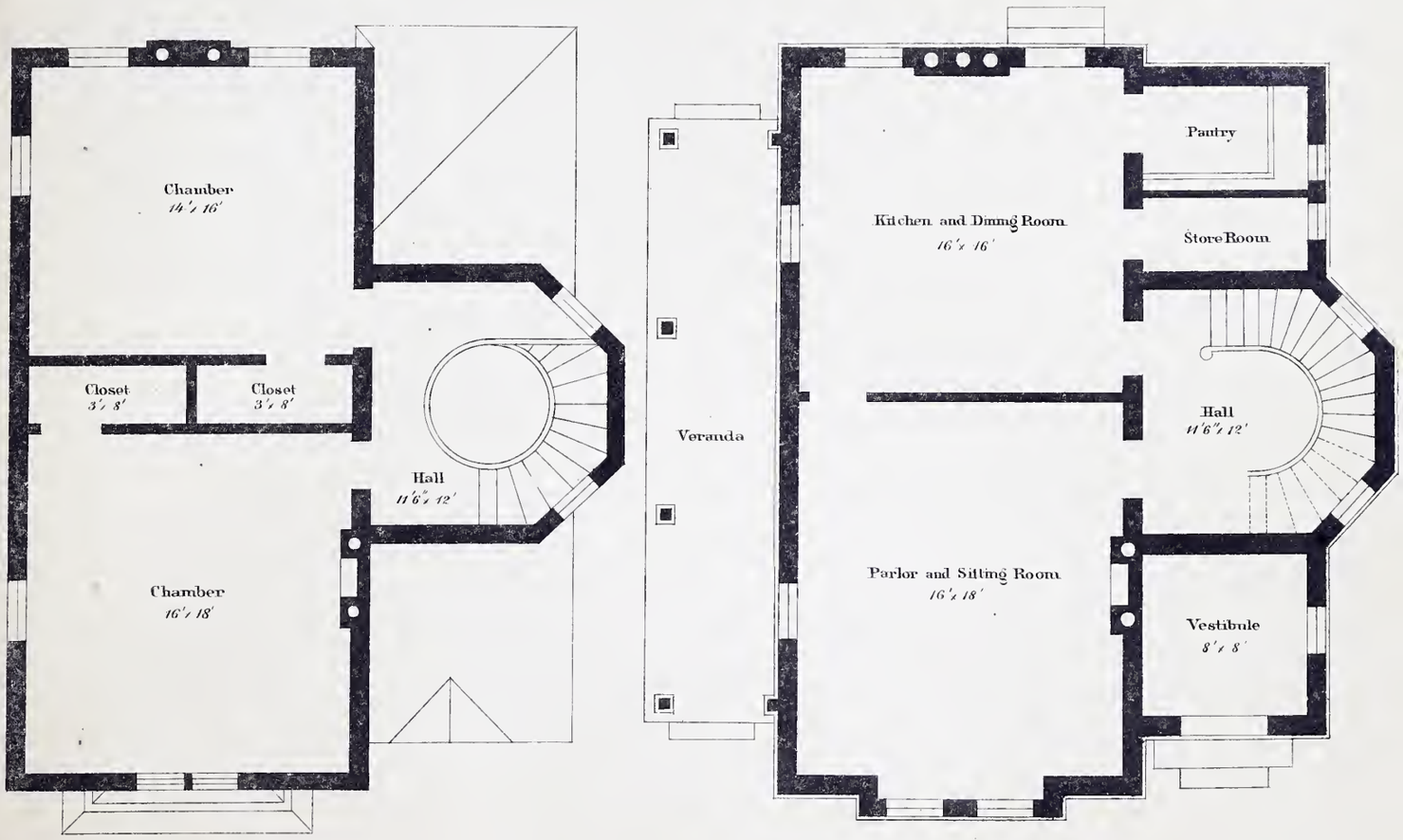
PLATE 36 contains the plans and elevations of a three-story city residence, just erected for C. C. Schoonmaker, in Troy, N. Y. The lot adjoining a spacious church-yard, rendered the use of the French roof on the front and side of the building practicable and desirable. The first story contains parlor, hall, dining-room, kitchen, pantries, closets, &c. The second story contains sitting-room, sewing-room, chamber, bath-room, two bed-rooms, and closets. The third story, in the French roof, gives four sleeping-rooms with closets. A and B show the cornice, and C, C, the dormer-windows. The front is of brown stone, having bold moulded straight caps to the openings of first and second stories, all having corbels.

Scale of plans and elevation, $\frac{1}{8}$ in. to the foot. Scale of details, $\frac{3}{4}$ in. to the foot.

PLATE 37.

PLATE 37 contains the elevation, plans, and details of a small cottage, suitable for a gate-keeper or gardener. Each story contains two rooms and the usual halls, closets, &c. A shows the finish in gables, sawed work, and B, the finials on roof. This building would look best built of stone with rubble walls; but, if of brick, the walls should be tinted stone-color. The roof should be slate, and the ridge surmounted with an iron crest.

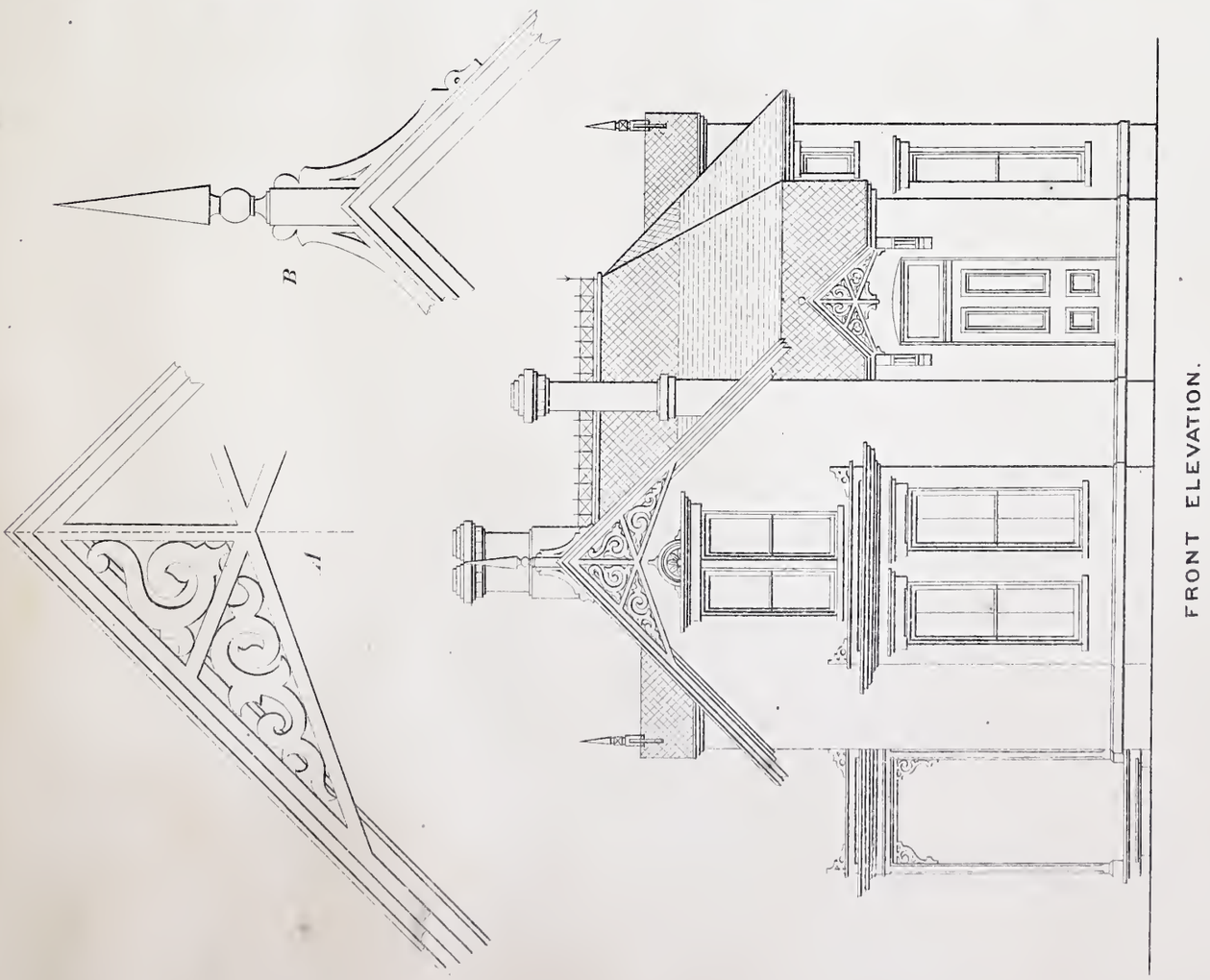
Scale of plans and elevations, $\frac{1}{8}$ in. to the foot. Scale of details, $\frac{3}{4}$ in. to the foot.



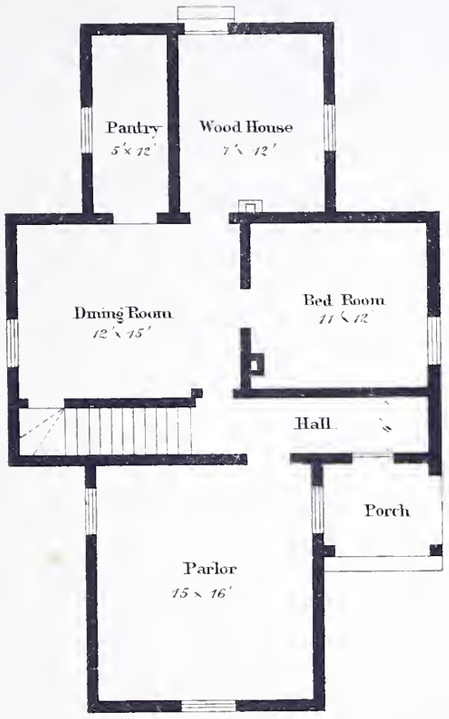
SECOND FLOOR

FIRST FLOOR.

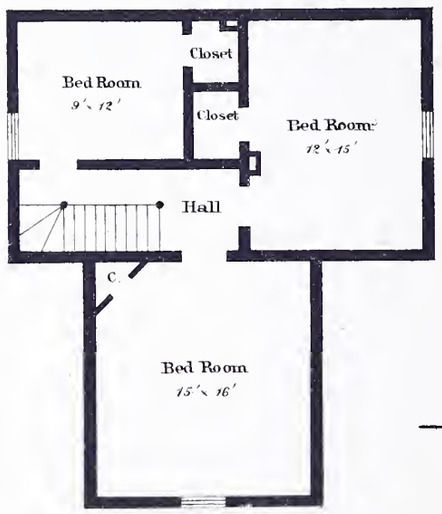
Plate 37.



FRONT ELEVATION.



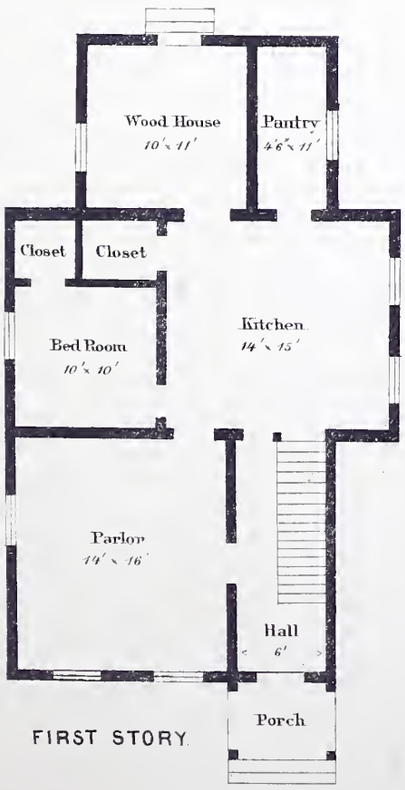
FIRST STORY



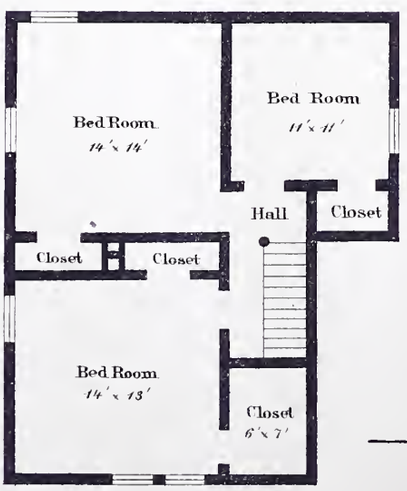
SECOND STORY.

ELEVATION.

Fig 1.



FIRST STORY.



SECOND STORY.

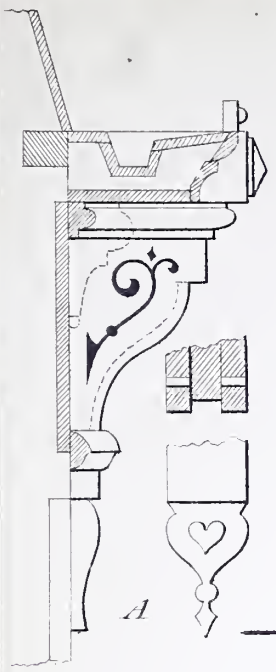
ELEVATION.

Fig. 2.

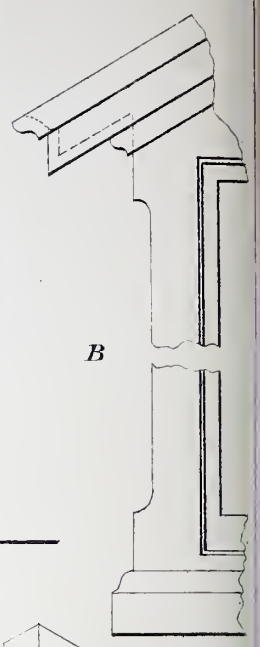
PLATE 38.

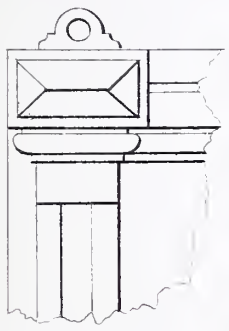
PLATE 38 contains two designs for cheap frame cottages, one and a half stories high, and having a few ornamental features to relieve their plainness. They should be clapboarded, and the roofs should be covered with slate or shingles. Fig. 1 shows the plans and elevations of one building, containing, in the first story, a parlor, hall, stairway, dining-room or kitchen, pantry, bed-room, and wood-house; and in the second story a hall and three bed-rooms, with closets. The exterior details are simple,—the cornice to project 28 in. and to have crown and bead-mouldings: the front-gable finish to be of sawed boards, with a scroll on the roof. The two end gables to be hipped back, and to have turned finials. The building shown at Fig. 2 contains about the same amount of room as the one shown at Fig. 1. The cornice has small brackets, and the corner boards, frieze, and belt, are each 12 in. wide, and plain. The gable ornaments should be sawed from 3 in. plank.

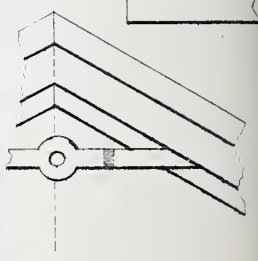
Scale of plans and elevations, $\frac{1}{12}$ in. to the foot.

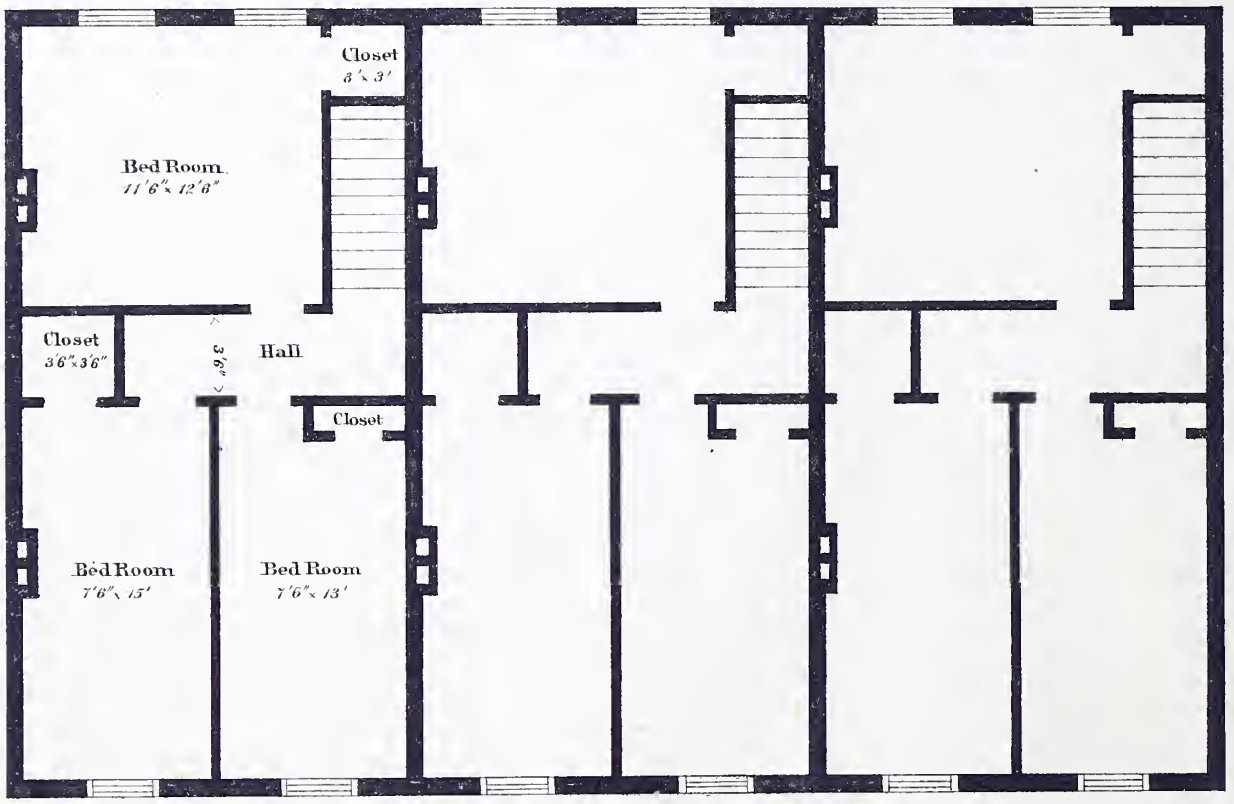


FRONT ELEVATION.

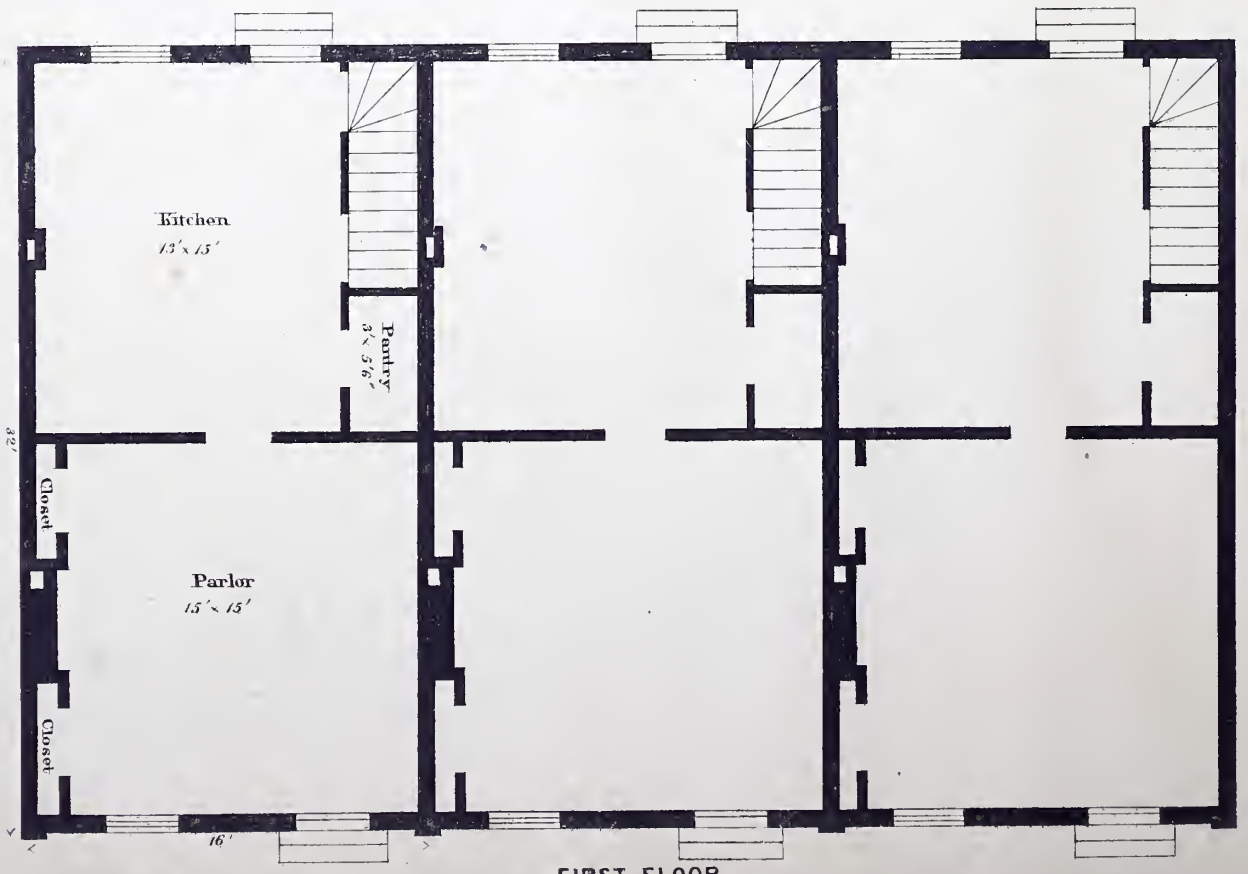








SECOND FLOOR.



FIRST FLOOR.

PLATE 40.

PLATE 40 shows a design for a row of three cheap tenement-houses, each one designed to accommodate but one family. The first story of each house contains a living-room, kitchen, pantry, two closets, and stairs to second story and to cellar. The second story has three bedrooms, with closets attached. The walls to be of brick, and those of front and rear to extend up but one story; the remainder of the required height for second story to be gained by the steep portions of the roof, which should be slated. At A are the details of the cornice, and B shows the dormer-windows of second story. At the top of the steep portion of roofs should be a light moulded cornice; the window and door arches to be of brick, and the sills and water-table of dressed stone. The end and division walls are carried up through the roofs and coped with plank or stone. These houses are 32 feet deep and 16 feet front, each.

Scale of plans and elevations, $\frac{1}{8}$ in. to the foot. Scale of details, $\frac{3}{4}$ in. to the foot.

PLATE 41.

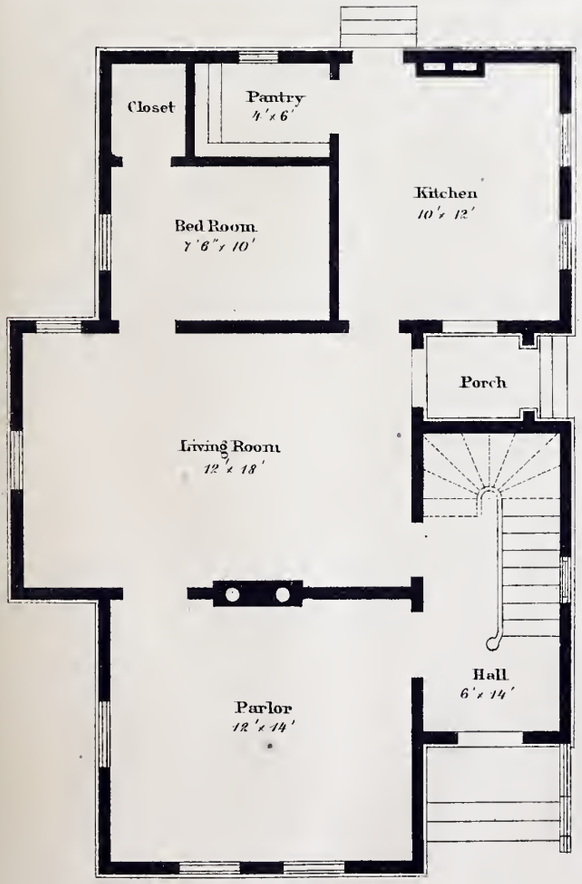
PLATE 41 contains the elevations and plans of a small cottage. The first floor has parlor, living-room, kitchen, bed-room, hall, and closets; and in the second story are two chambers and three closets.

The cornices and window-finish are light and moulded; the scroll work in front gable should be sawed from 1½ in. plank, and the crest of ridge should be of the same. The sides should be clapboarded, and the roof shingled or slated.

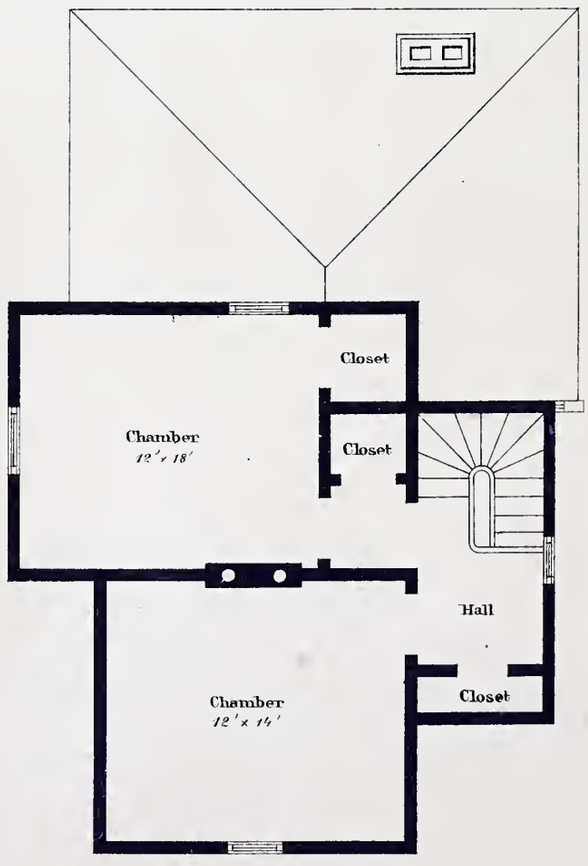
Scale of designs, ⅛ inch to the foot.

FRONT ELEVATION.

SIDE ELEVATION.



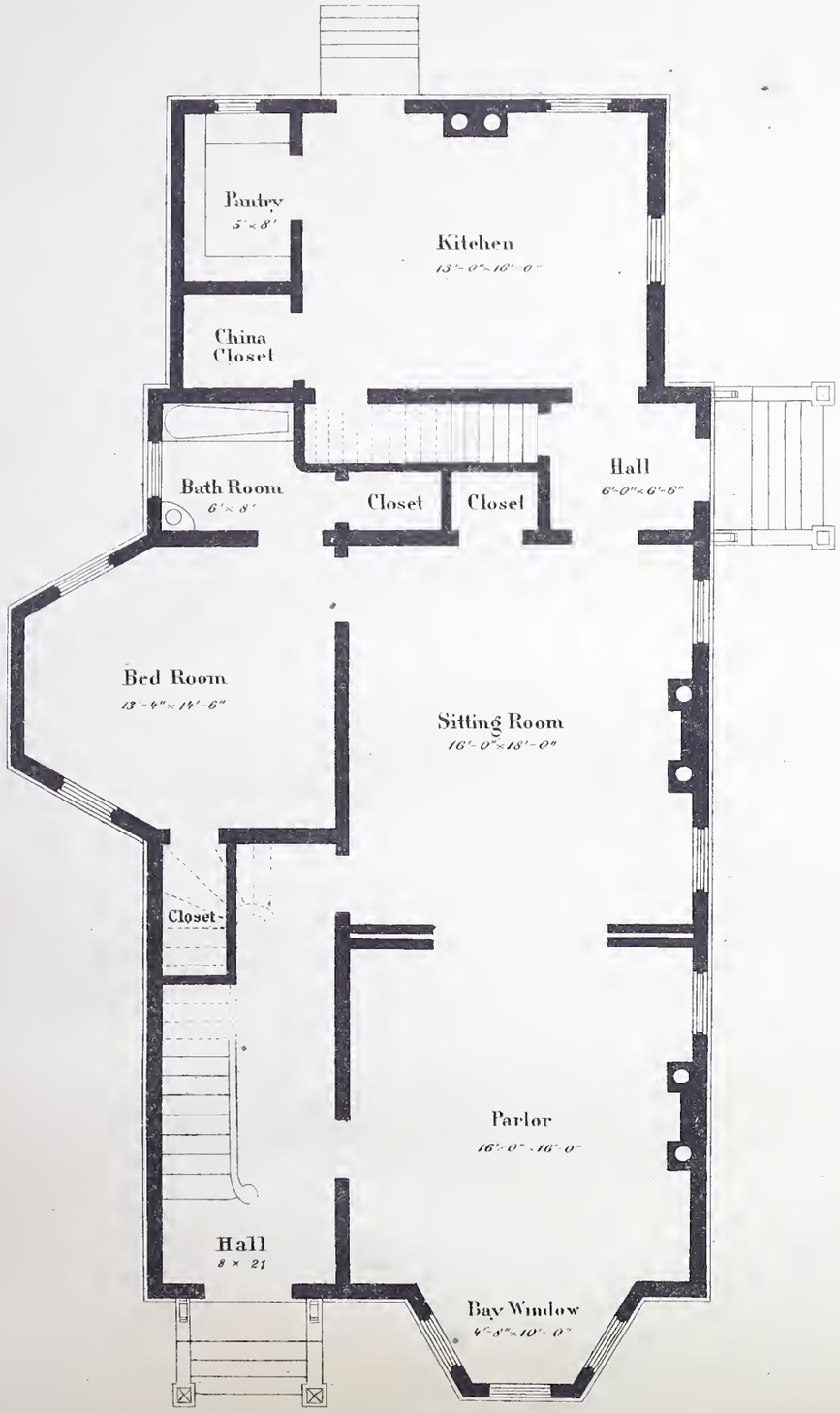
FIRST FLOOR.



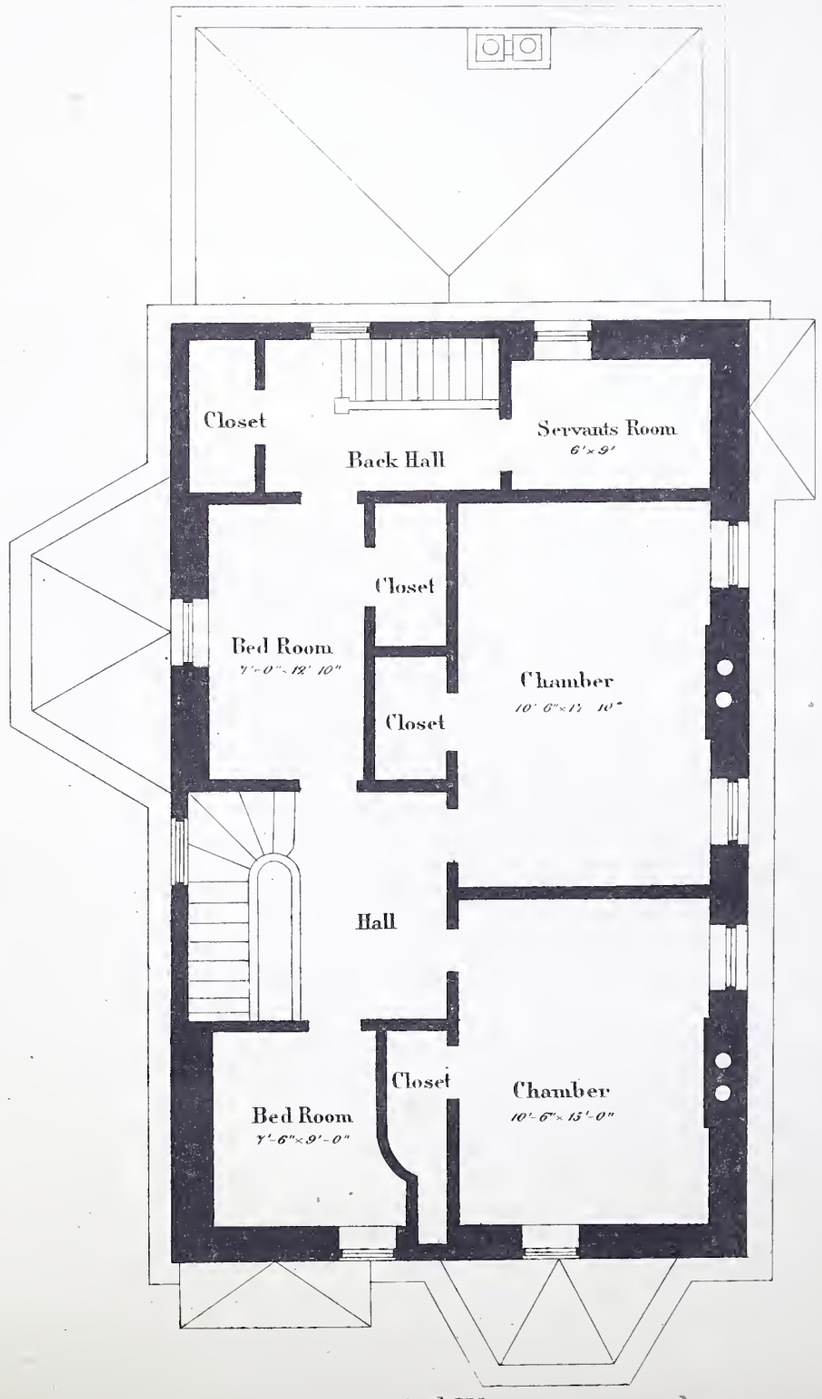
SECOND FLOOR.

FRONT ELEVATION.

SIDE ELEVATION.



1st Floor.



2nd Floor.

PLATES 42, 43.

This one-story French cottage is designed to be built of wood. The plan of the first floor is an excellent one, and is sufficient for the accommodation of an ordinary family. The second floor has three bed-rooms, and two smaller rooms for servants. The second floor is finished off in the Mansard roof. The roof is intended to be covered with shingles; the upper roof or flat, with gravel.

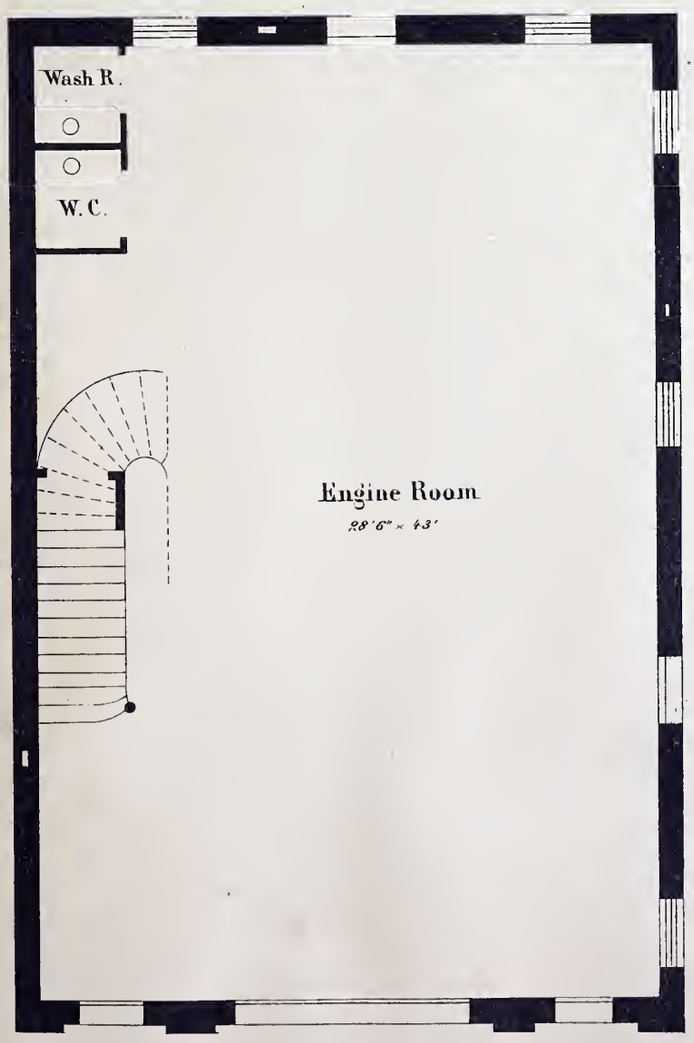
The floor plans and elevations are drawn upon the scale of an inch to eight feet; the details upon the scale of $\frac{3}{4}$ in. to the foot. Fig. A, Plate 42, shows main cornice and bracket over main door-way; Fig. B, Plate 42, front of dormer.

PLATE 44.

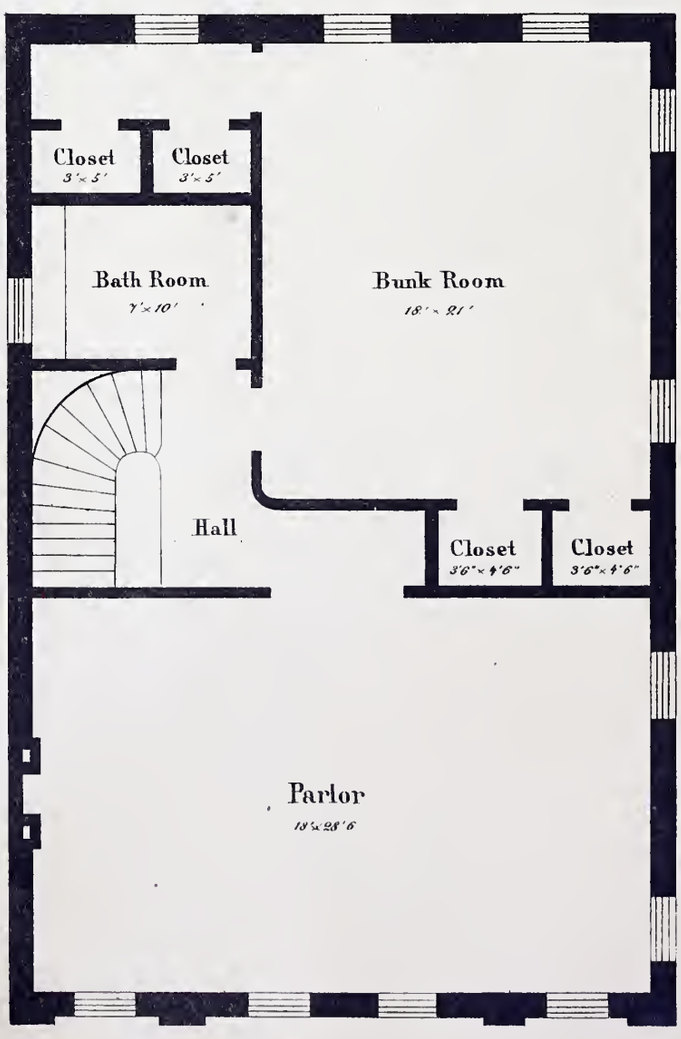
PLATE 44 shows the front elevation and first and second story plans of a fire-engine house. This design was prepared for the fire-commissioners of the city of Troy, and has been erected for the accommodation of a steam fire-engine. Attached to the building, on the side, a stable has been erected for the accommodation of the horses, hay, feed, and wagons; this, however, is not shown on the plans given. The first story of the building contains the engine-room, wash-room, and water-closet. The second story contains a parlor or meeting-room, bunk-room, bath-room, and closets. The building is of brick, with brown-stone dressings, except the cornice, which is of wood. At A is shown a section of the cornice and front brackets; B, shows the side brackets; C, a section of the cornice in the central portion of the front; D, the drops to the brick corbels; E, the scroll on the pediment; and F, the openings cut through the frieze. G shows a section of the belt at second floor. If a hose tower is required, it should be erected in the rear of the building.

Scale of plans and elevations, $\frac{1}{8}$ in. to the foot. Scale of details, $\frac{3}{4}$ in. to the foot.

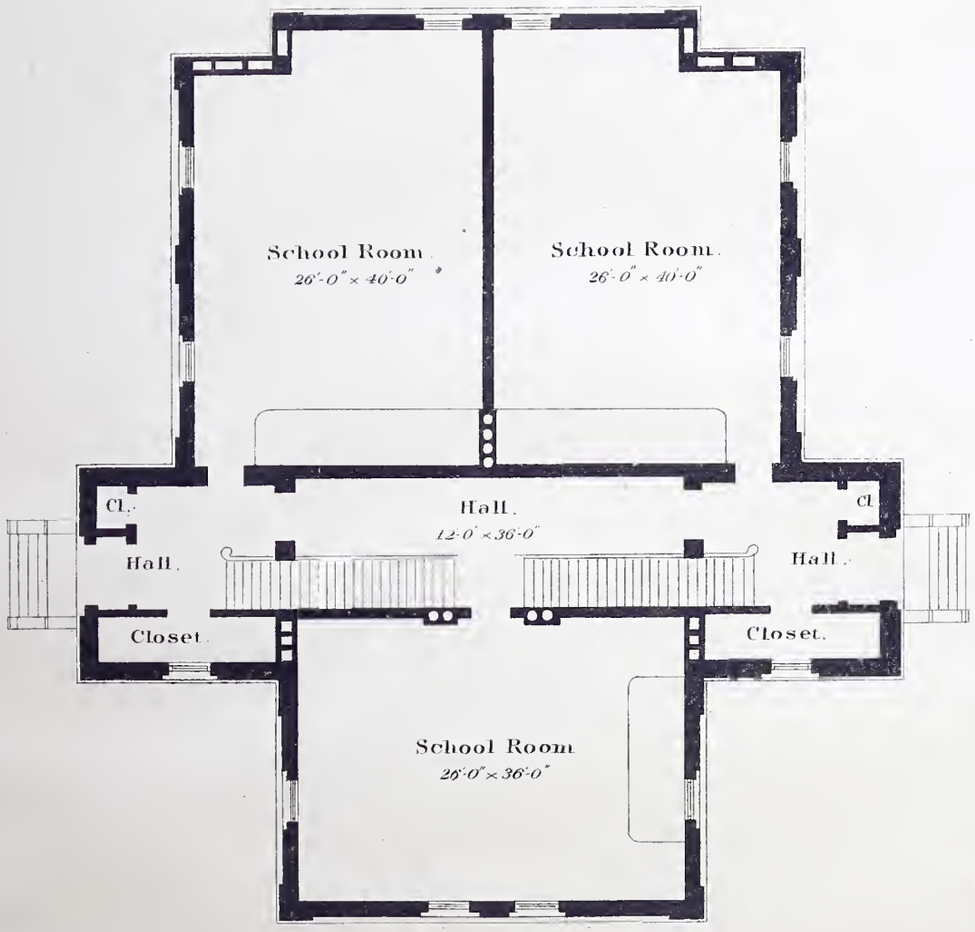
Elevation.



1st Story.



2nd Story.



GROUND PLAN.

FRONT ELEVATION.

PLATE 45.

This design for a school building costing thirty thousand dollars was adopted by the School Board of the city of Hillsdale, Mich., after a preliminary examination of many plans. The first and second stories are the same in plan; the third story is divided into one large school-room and two recitation-rooms. The building is built of brick, with cut stone details, wood cornice, and slate roof. The building looks much better in execution than in the drawings, and is considered a success as a modern school building.

The drawings are made on a scale of an inch to sixteen feet.

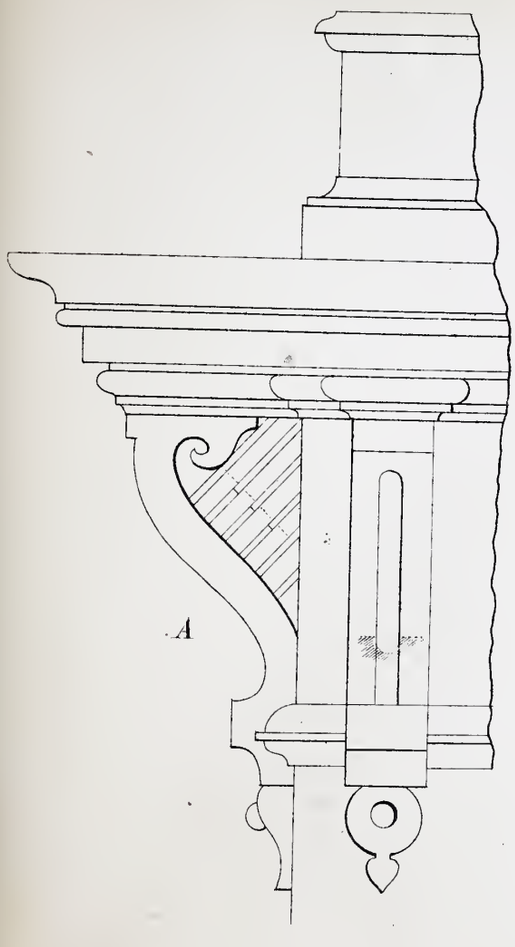
PLATES 46, 47.

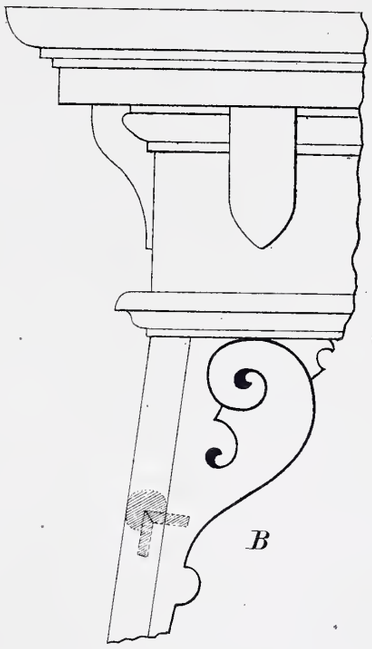
PLATES 46 and 47 show the elevation and plans of two stories of a school-house now being erected in the first ward of the city of Troy, N. Y.

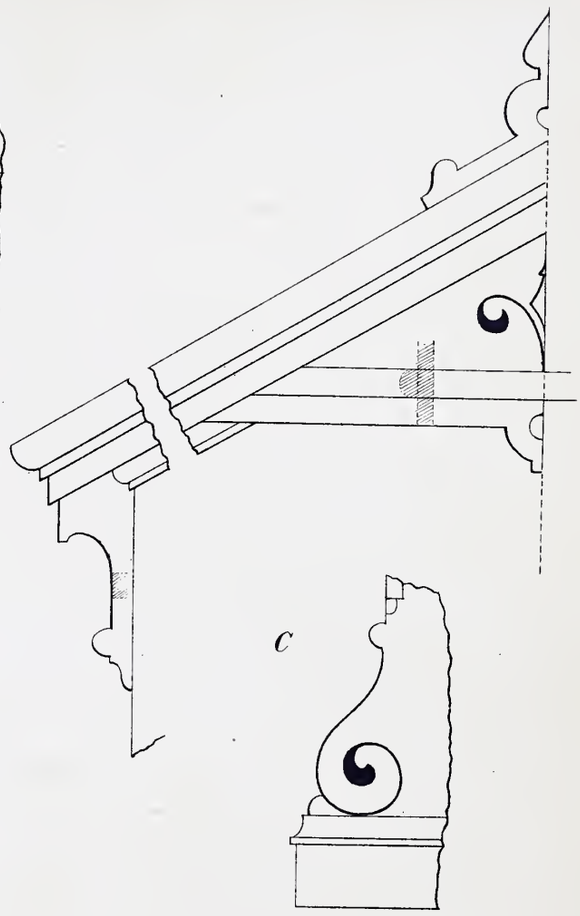
There are four entrances and stairways, one at each corner of the building. The stairs and halls are 10 ft. wide, and each and all of them communicate with all the rooms in the building. Each story has four large wardrobes and three school-rooms, separated by sliding sash-door partitions, so that when occasion requires the three rooms may be thrown into one. Class-rooms, and a private room for the principal, are provided where shown. The basement is divided into two equal partitions, and contains large play-rooms, heater and fuel cellars, and water-closets for teachers and scholars. Each school-room is supplied with water and warmed by steam. The smoke pipes of the two heaters pass up in the large flues marked V on the plans and pass out at the top: ventilation is gained by said flues, which are 3 ft. square, and registers open into them from all the school-rooms. The walls are to be of Croton brick, the exterior dressings of Ohio sandstone, the roofs to be covered with red slate, the windows to have inside blinds, and all wood finish inside to be of chestnut, oiled and polished.

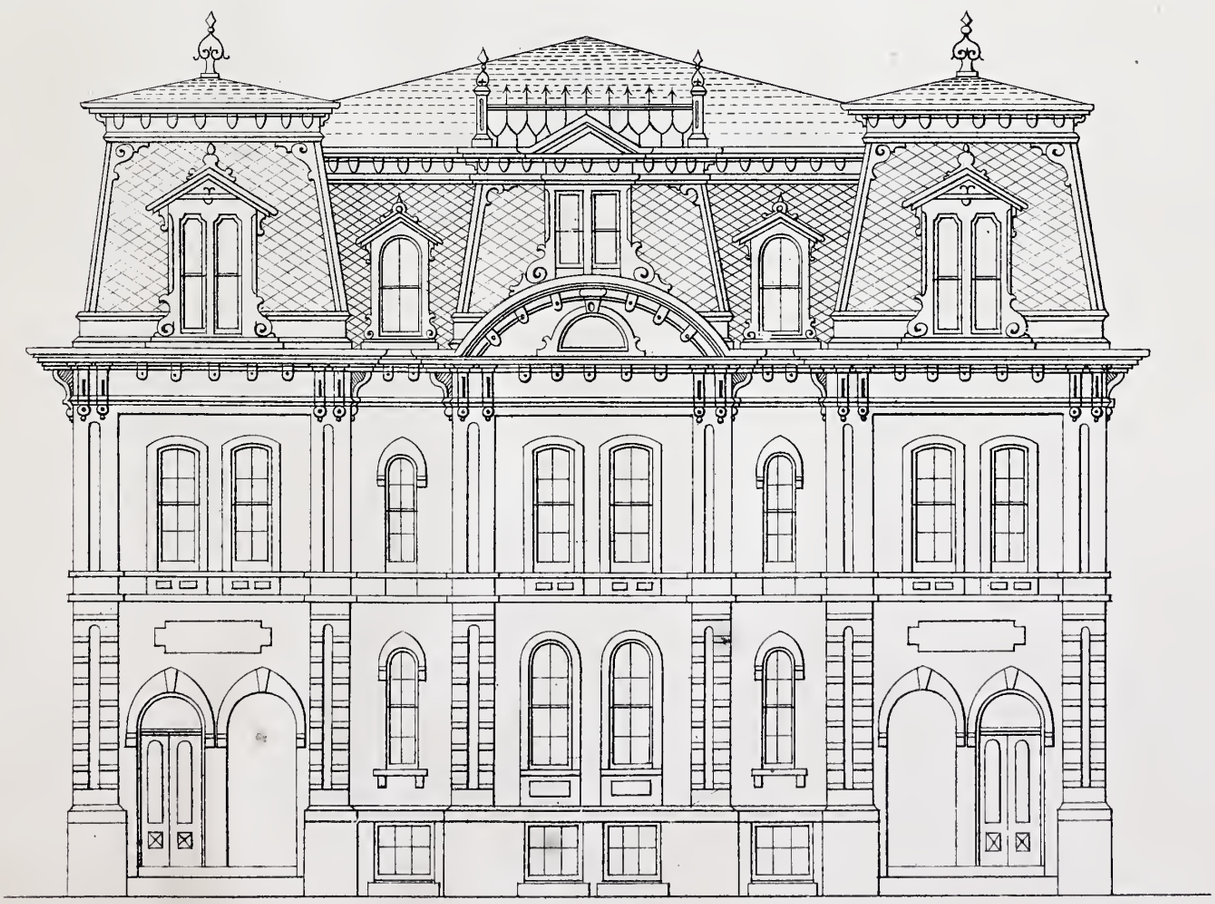
Scale of plans and elevation, $\frac{1}{12}$ in. to the foot. Scale of details, $\frac{3}{4}$ in. to the foot.

A shows the main cornice; B, the cornice at top of steep roof; and C, the large dormer-window finish.

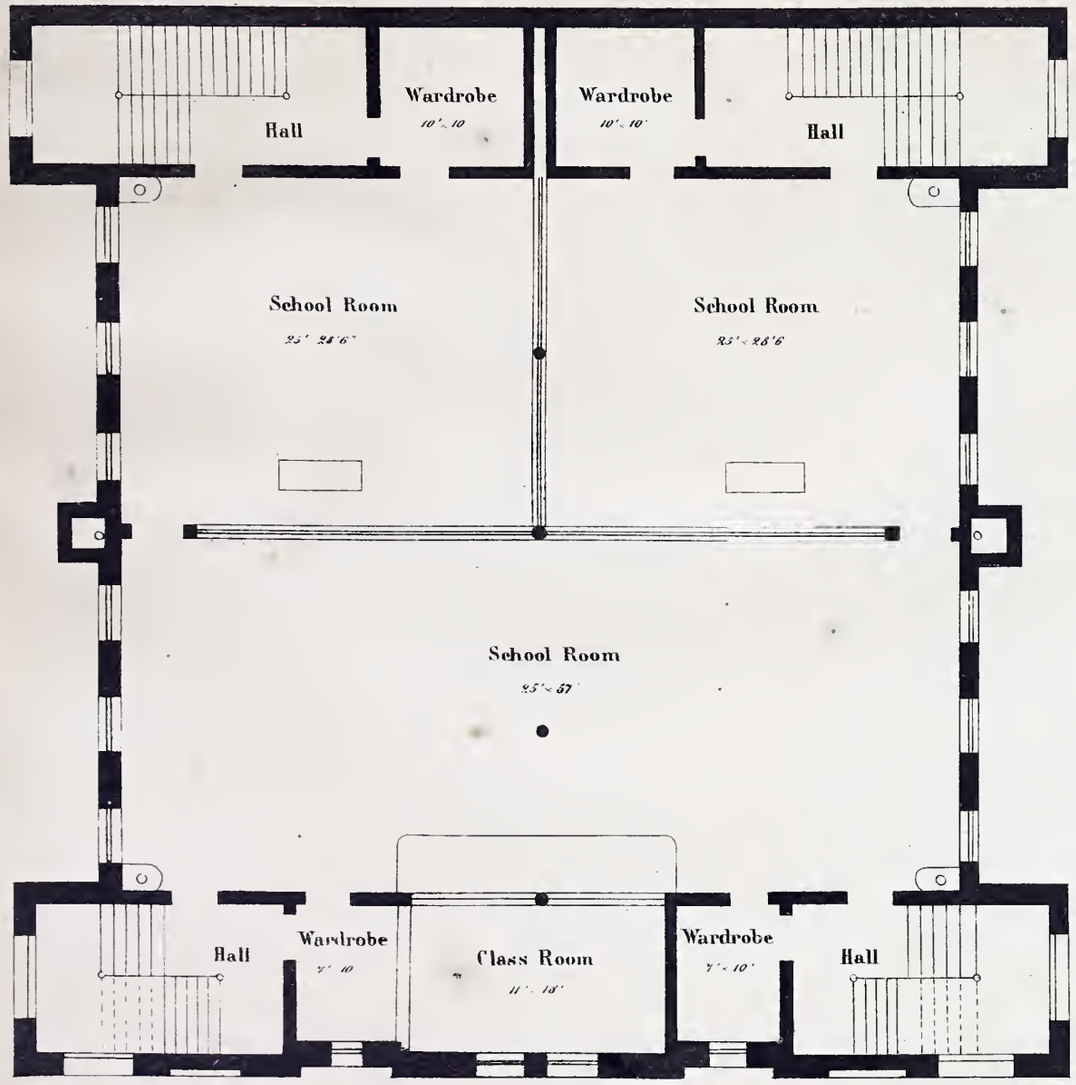




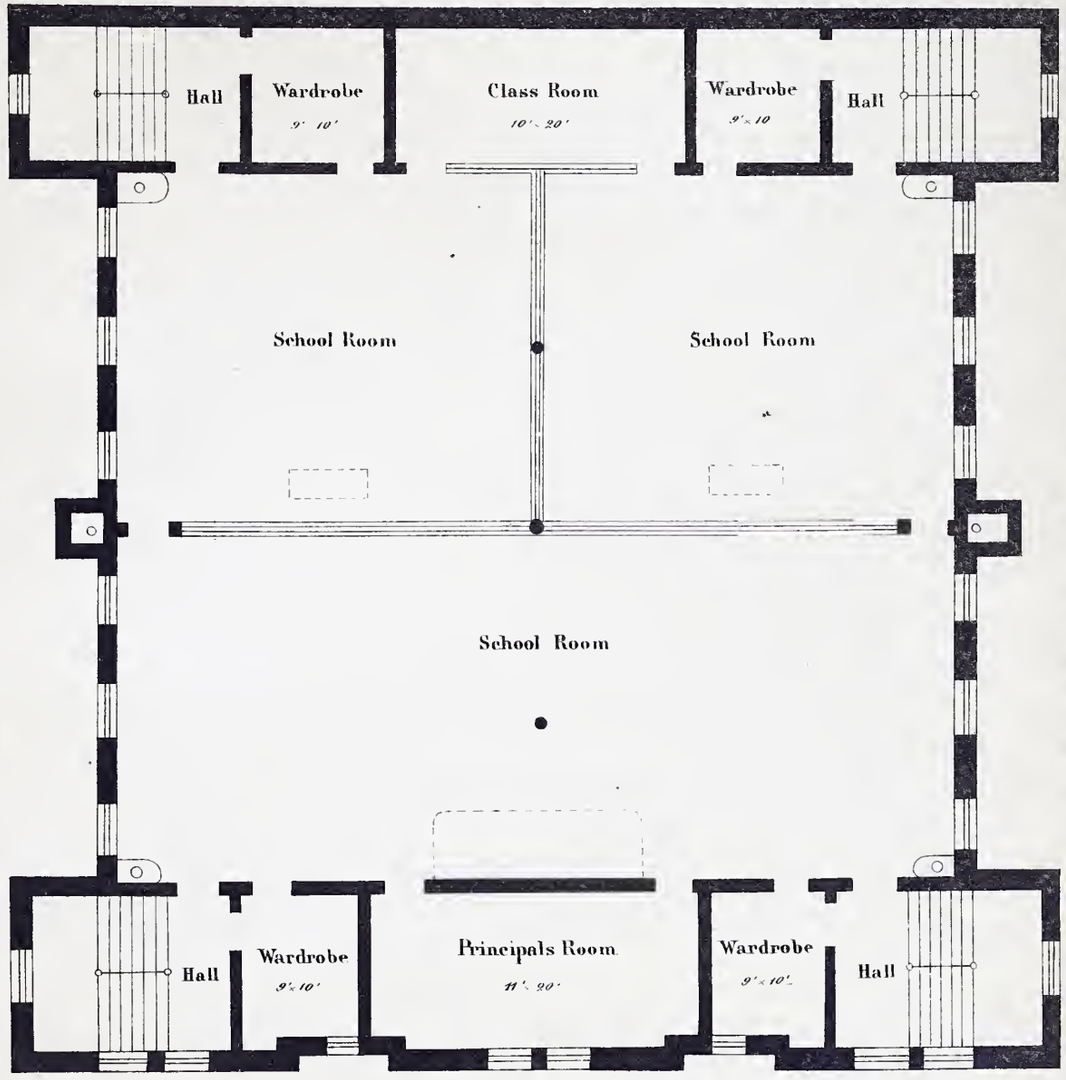




FRONT ELEVATION.



First Story.



Third Story.

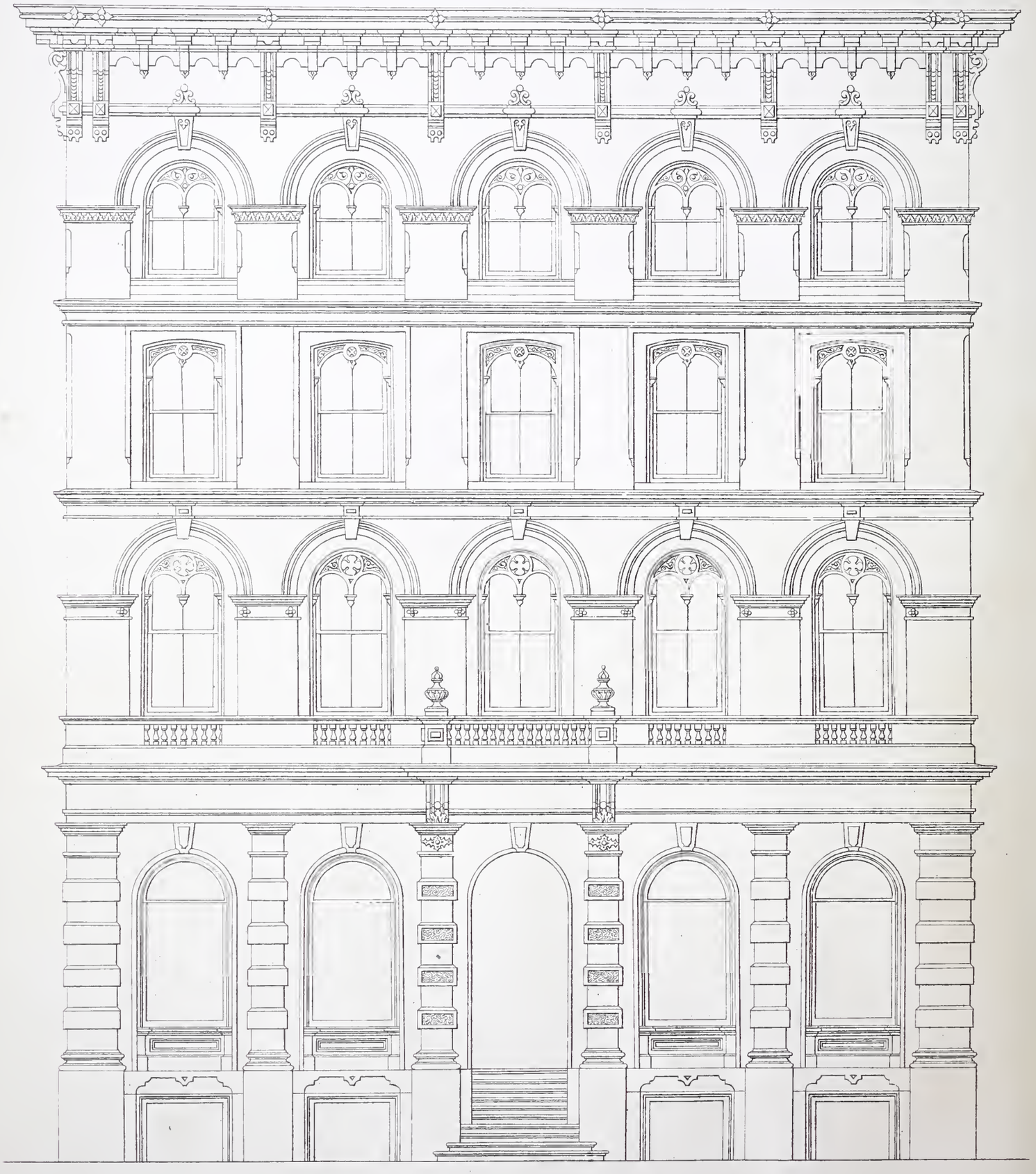


PLATE 48.

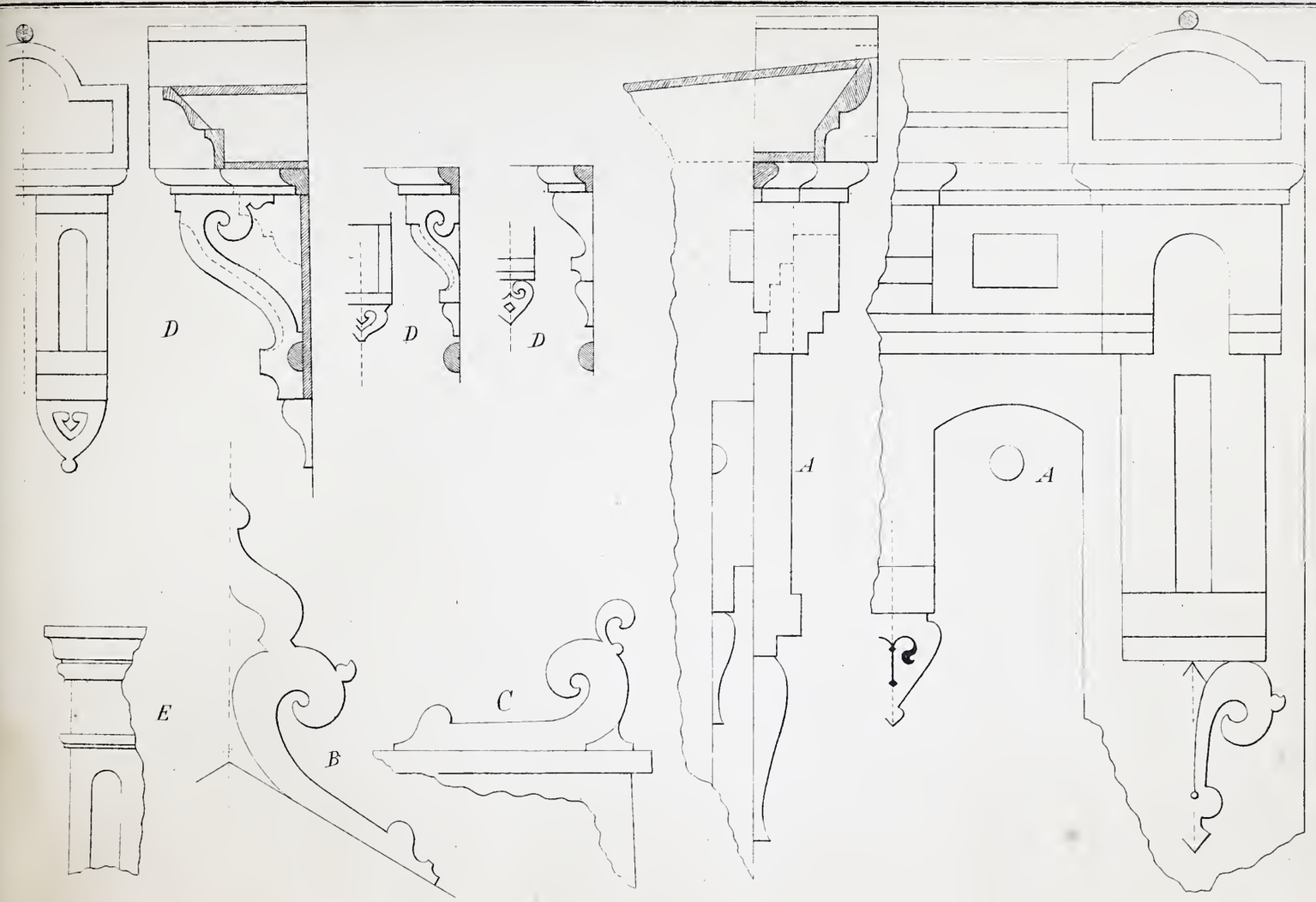
This drawing of street-front is designed for W. J. Finlay Esq., of Toledo, O., who contemplates finishing the same during the year 1868. The interior is planned for banking and insurance offices. The front is designed for cut stone with cornice of galvanized iron. The elevation is drawn upon a scale of an inch to 8 feet.

PLATE 49.

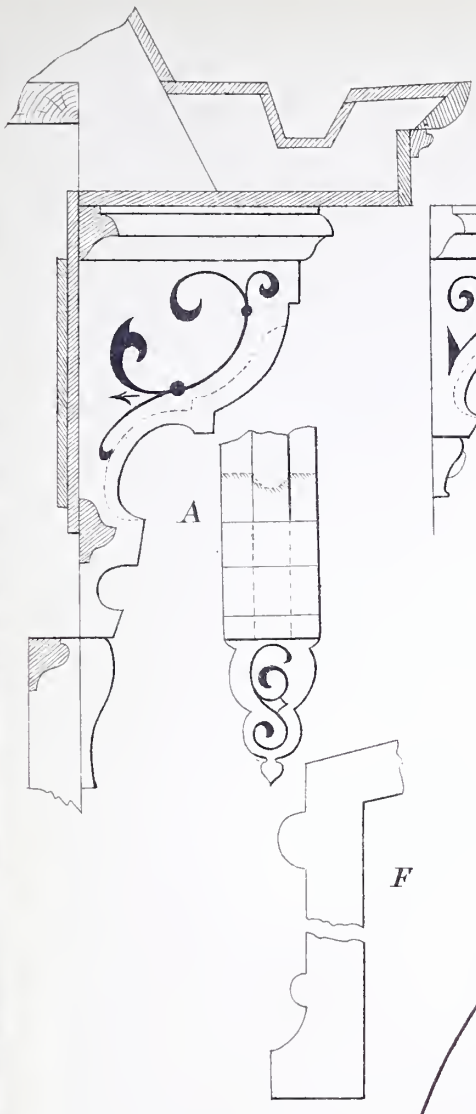
Plate 49 shows an elevation of the front of a block of stores recently erected in the village of Glen's Falls, N. Y., for D. H. Cowles. The finish of the front is not expensive, but sufficient to give it a bold and tasteful character. The window-caps and sills are of cast iron, of designs which are quite common. The cornice is of wood and brick combined. The pilasters of the front are also of brick, and are made to project 4 in., and have a sunken panel in the face. The cornice of first story is of wood, tinned on the top.

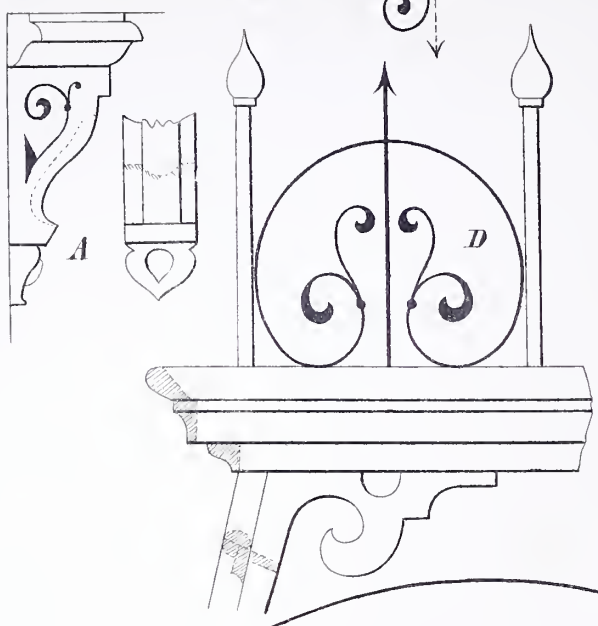
At A, A, is a section and elevation of the main cornice, the brackets and corbels of which are of brick, and the remainder of its features is of wood; B and C show the scrolls on the balustrade and centre gable; these scrolls are 6 in. thick; D, D, D show the details of cornice over the first story; and E, the cap of the columns.

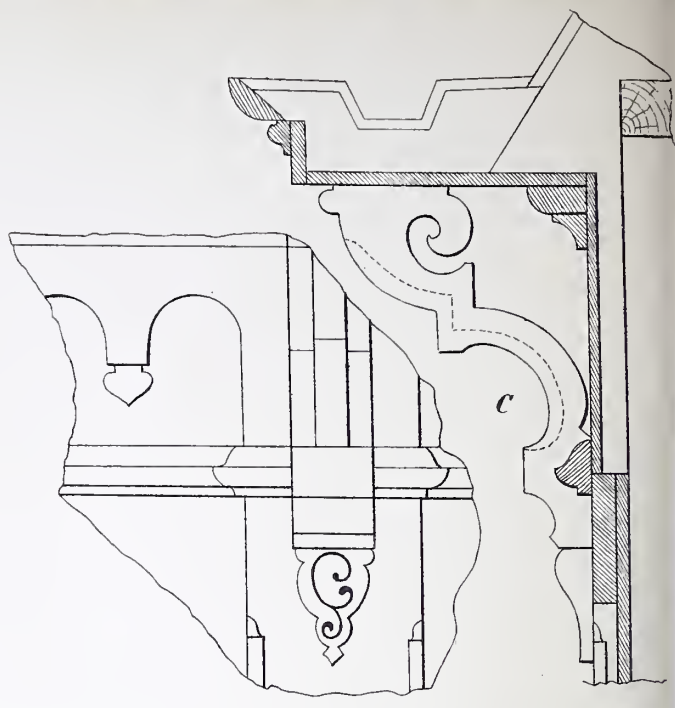
Scale of elevation, $\frac{1}{8}$ in. to the foot. Scale of details, $\frac{3}{4}$ in. to the foot.

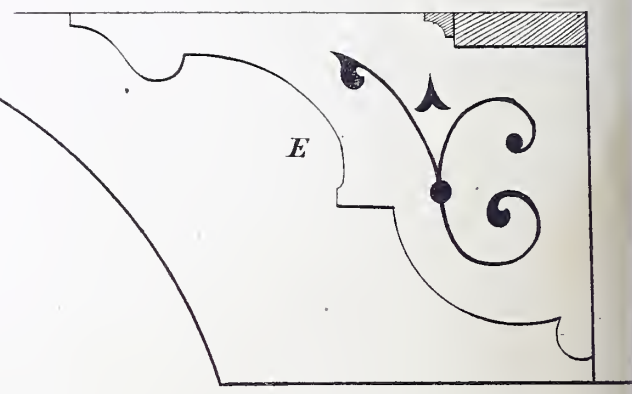


ELEVATION.

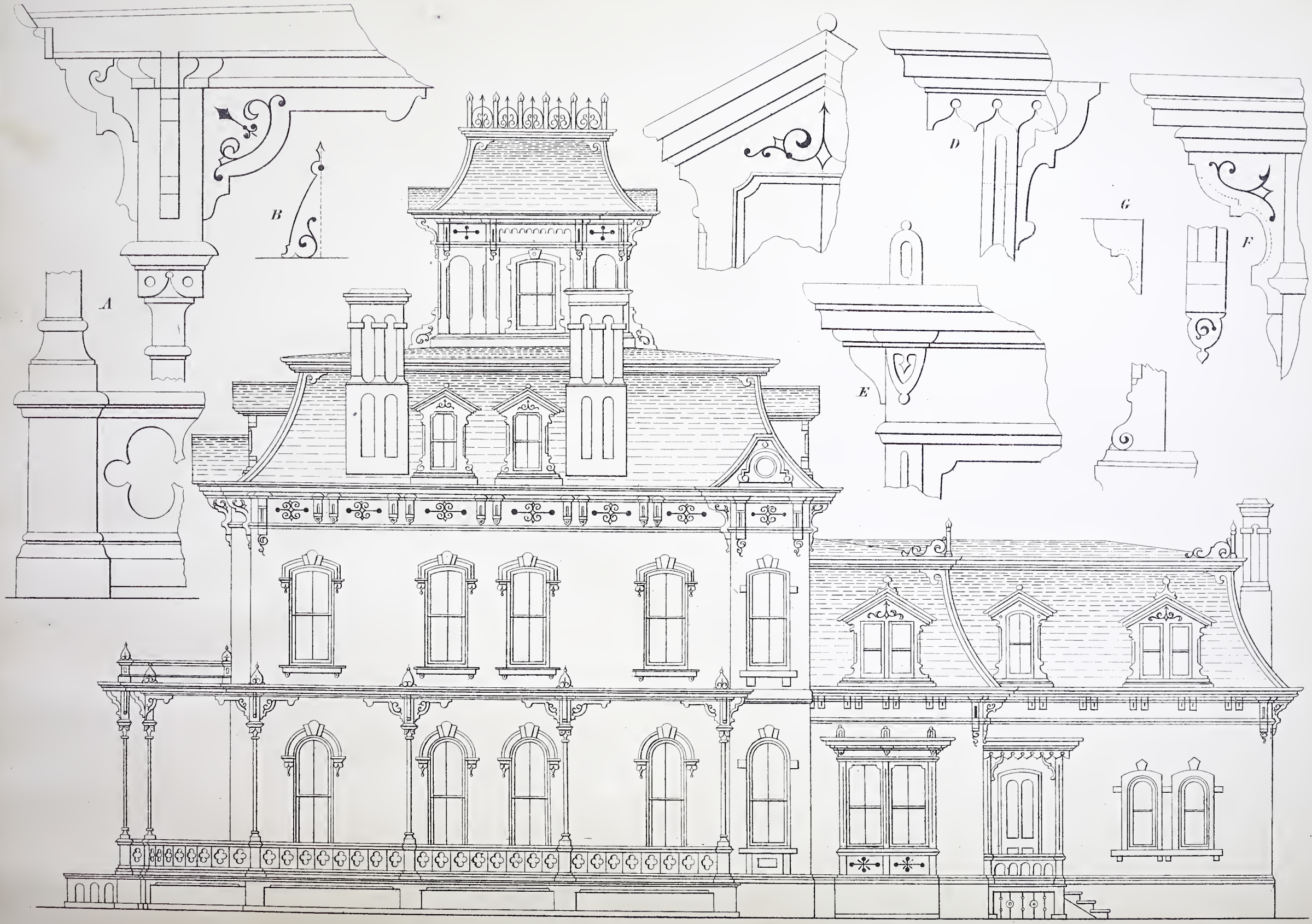








FRONT ELEVATION.



SIDE ELEVATION.

PLATES 50, 51.

Plates 50 and 51 show the elevations and details of a large dwelling-house now being erected in the village of Bennington, Vt., for L. R. Graves, Esq. The walls of the building are of brick; the windows of main part have caps and sills of cast iron; the basement and the exterior trimmings of doors are of dressed stone; the other exterior features are to be of wood. The curved portions of roof are to be covered with slate. Although the elevations possess as a whole an elaborate appearance, it will be found on an examination of the details, that the finish is quite simple and of easy construction. All the ornaments and enrichments are such as are easily made by the scroll saw, when they are of wood. On Plate 50, A A show the details of the main cornice of main building; B, the ornaments in the frieze, which are simply holes cut through the outer thickness of one-inch boards; C, the details of cornice of observatory; D, the railing of wrought iron and the wood cornice at the top of curved roof of observatory; E, the buttress brackets at the foot of observatory, and F shows the casing of the windows in the same.

As a rule, an observatory should not be placed in the centre of a building having a Mansard or French roof, but should be gained, if required, by extending up a portion of the building in front or on the side, in the form of a tower. When it is placed in the centre of the building, as in this instance, it can not be seen entirely, unless viewed from a considerable distance. In this house, however, its position makes it admissible.

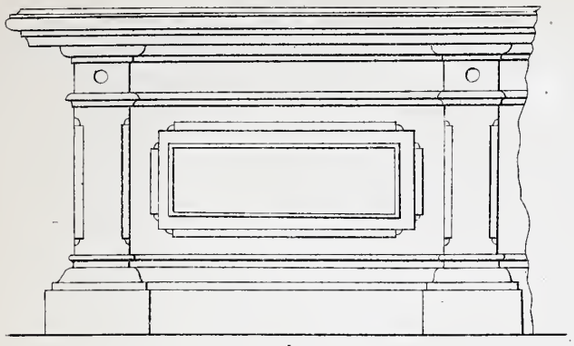
On Plate 51 are further details. A shows the piazza; B, the ornaments on the roof of the same; C, the dormer-windows; D, the cornice of side porch; E, the cornice of bay-windows; F and G, the cornice of rear building. All the details of this design are not given, as features quite similar to those omitted are shown elsewhere in this work.

Scale, the same as on previous plates.

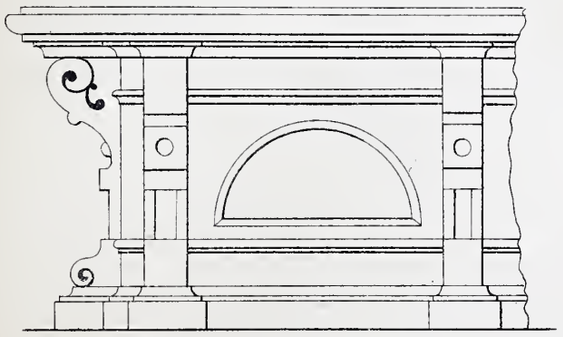
PLATE 52.

By request of many of our customers who are using our former work on Architecture, we introduce this plate which shows five designs for counters and five designs for cornices for store-shelving. The counter shown at A has pilasters, with beveled corners, and between them sunken and raised panels. Design B has sawed trusses, with arched and moulded panels. Design C has blocks at the top, arched panels, and moulded arches over them. Design D has plain sunken panels, with scrolls cut through them. Design E has sawed brackets and arched and moulded panels, and all to have moulded caps and bases. The cornice at F has brackets and paneled pilasters. G has small blocks, sawed scroll in frieze, arches, and half-round columns. H has a sawed crest, blocks, paneled and arched frieze, and half-round columns. K has sawed dentils; and L, raised panels in the frieze, and both to have plain pilasters.

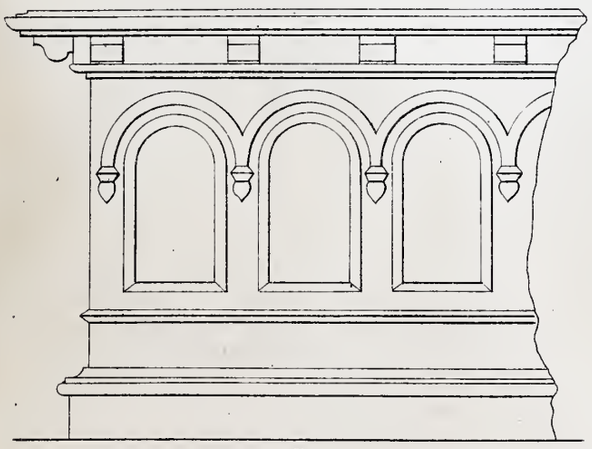
All designs on this plate are drawn to the scale of $\frac{3}{4}$ in. to the foot.



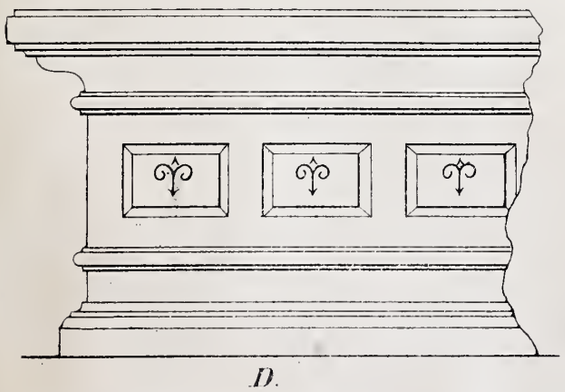
A.



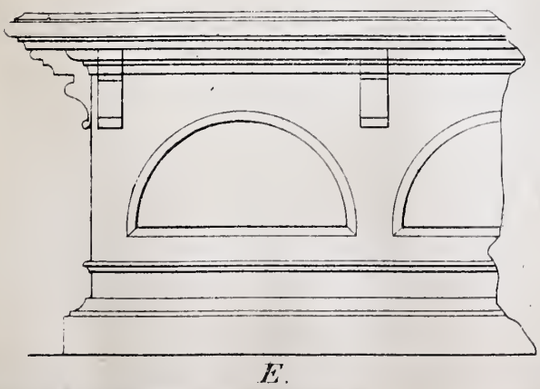
B.



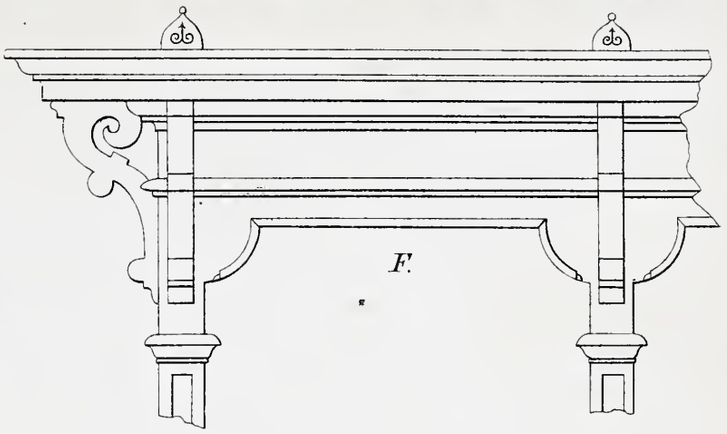
C.



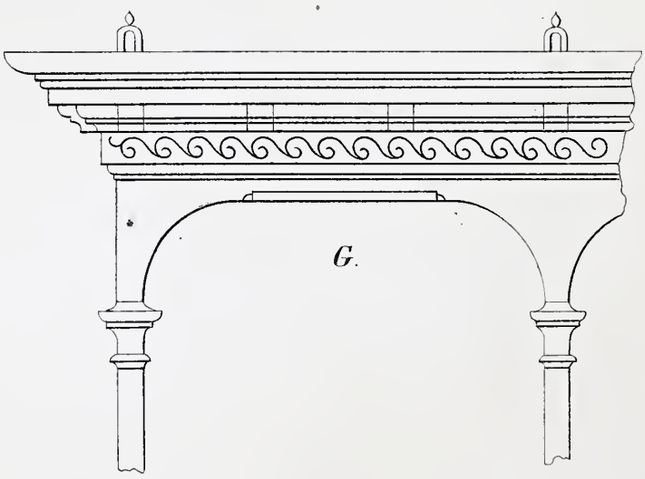
D.



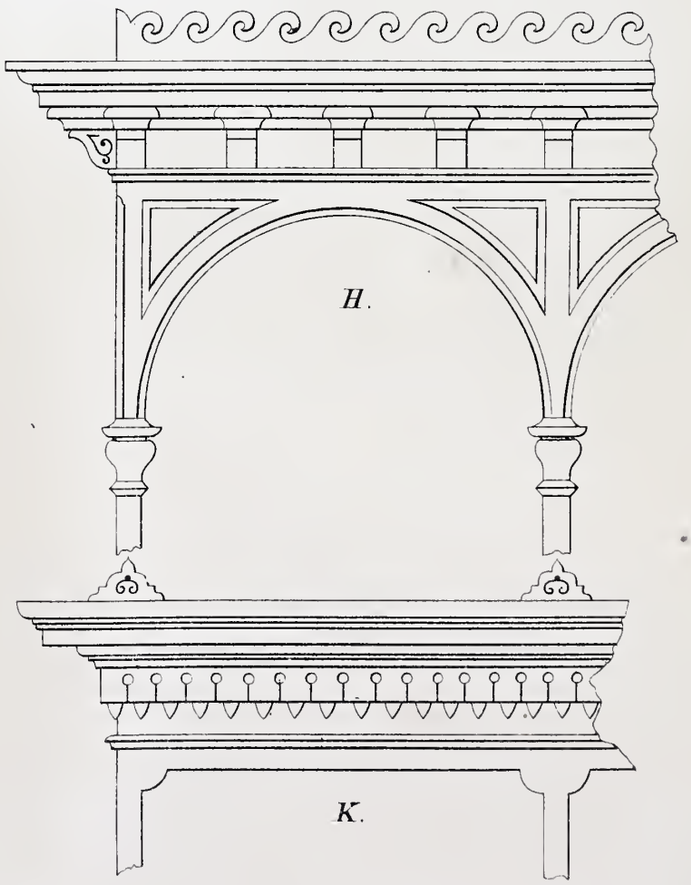
E.



F.

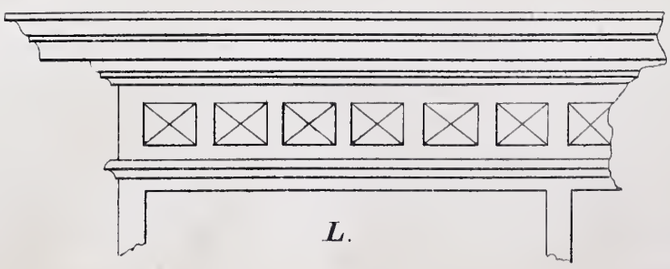


G.

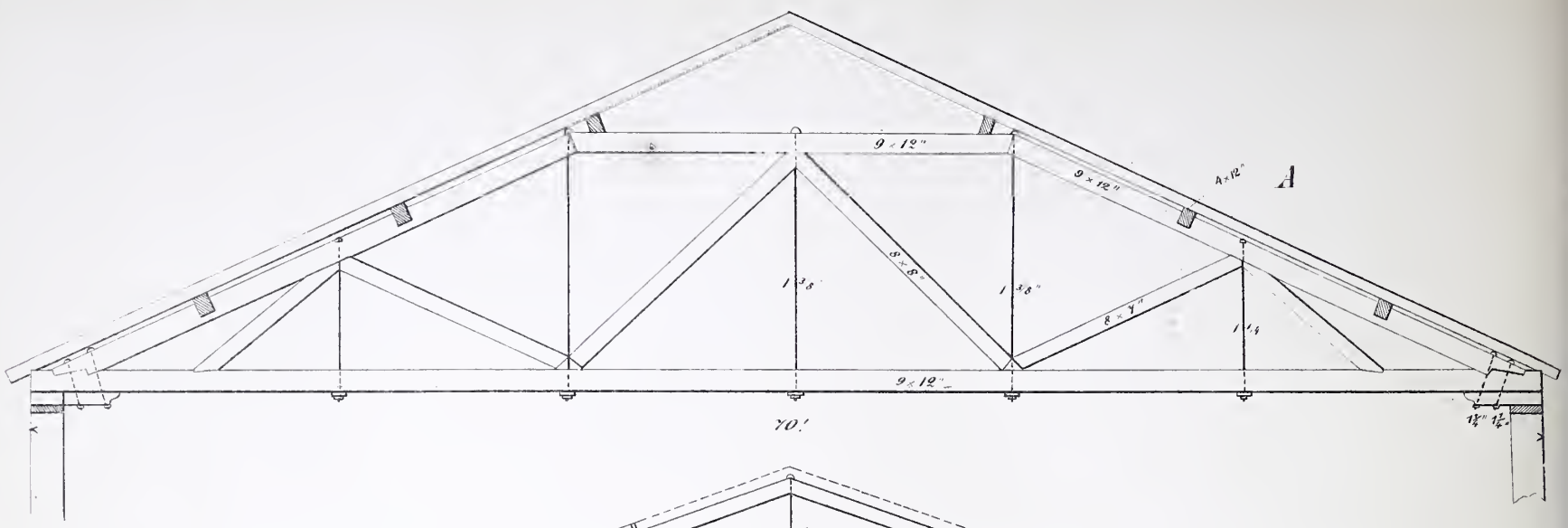


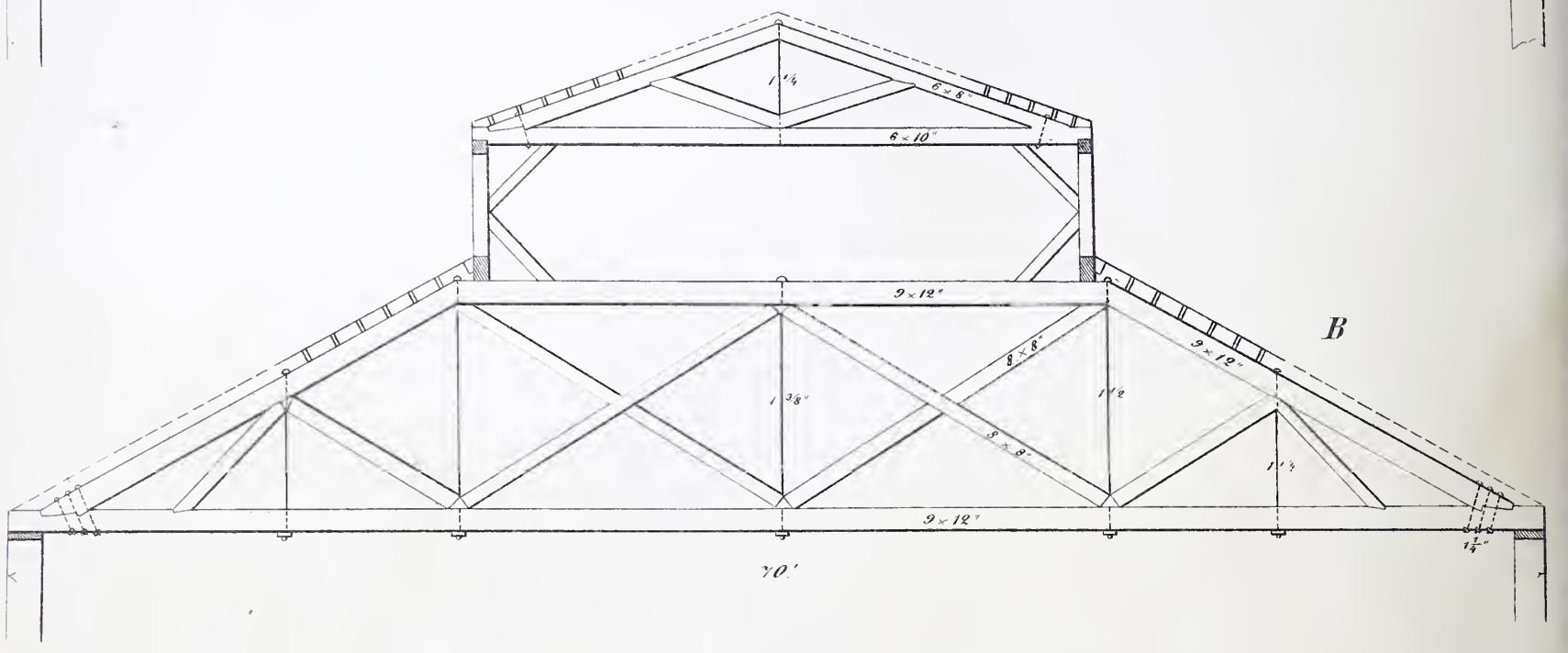
H.

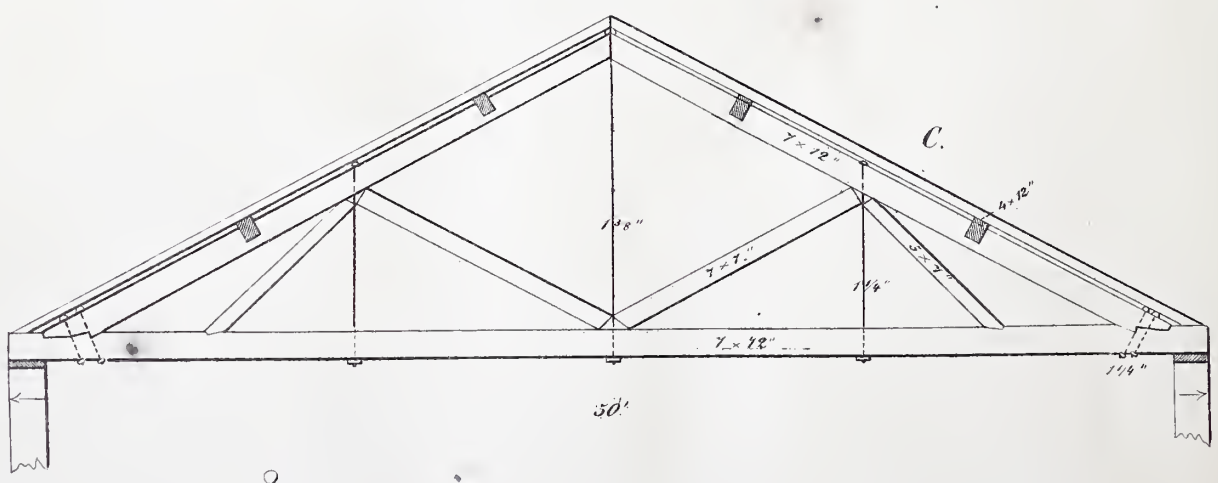
K.

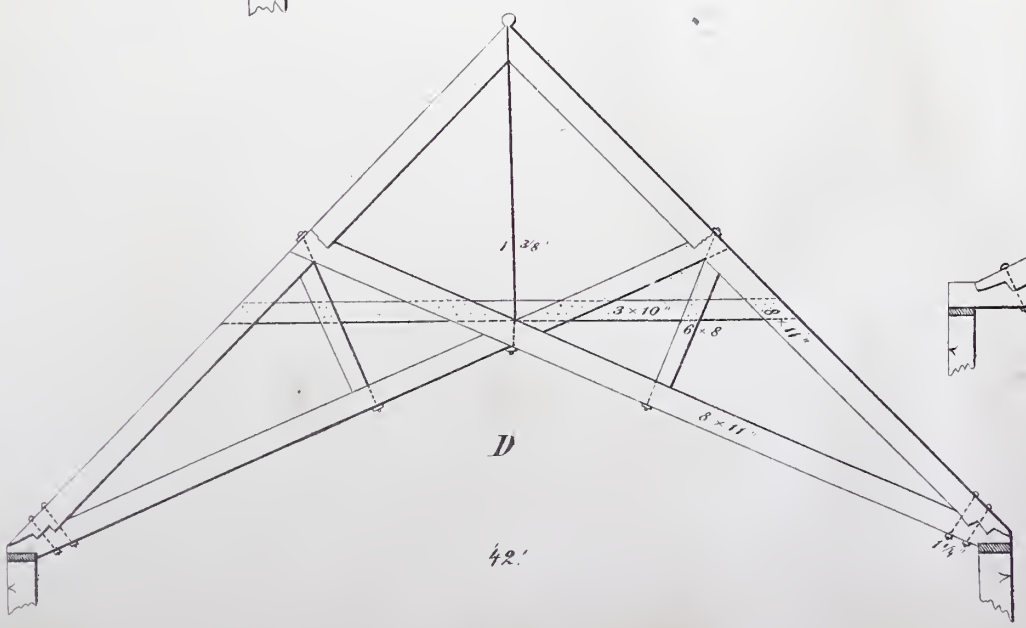


L.


9 × 12"
9 × 12"
A × 12"
A
3 × 8"
1 3/8"
1 3/8"
8 × 7"
1 1/4
9 × 12"
1 7/8" 1 7/8"
70'


1 1/4
6 × 8"
6 × 10"
9 × 12"
B
8 × 8"
9 × 12"
1 3/8"
1 1/2
8 × 8"
1 1/4
9 × 12"
1 7/8"
70'


C.
7 × 12"
4 × 12"
1 3/8"
7 × 7"
3 × 7"
1 1/4"
7 × 12"
1 1/4"
50'


1 3/8"
3 × 10"
6 × 8
8 × 11"
8 × 11"
1 1/2"
D
42'

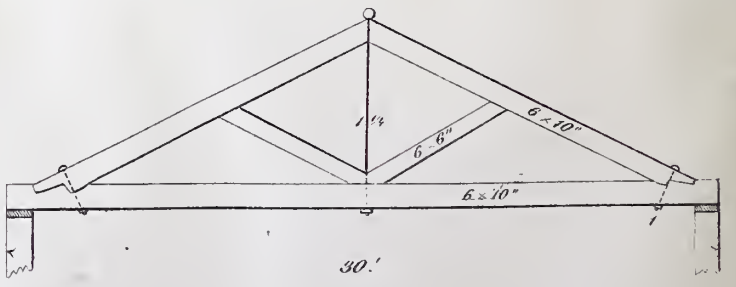

1 1/4
6 × 10"
6 × 6"
6 × 10"
1
30'
E

PLATE 53.

This work is not intended to be a treatise on construction, either in carpentry or masonry, but we have been induced to introduce a few designs for trussed roofs.

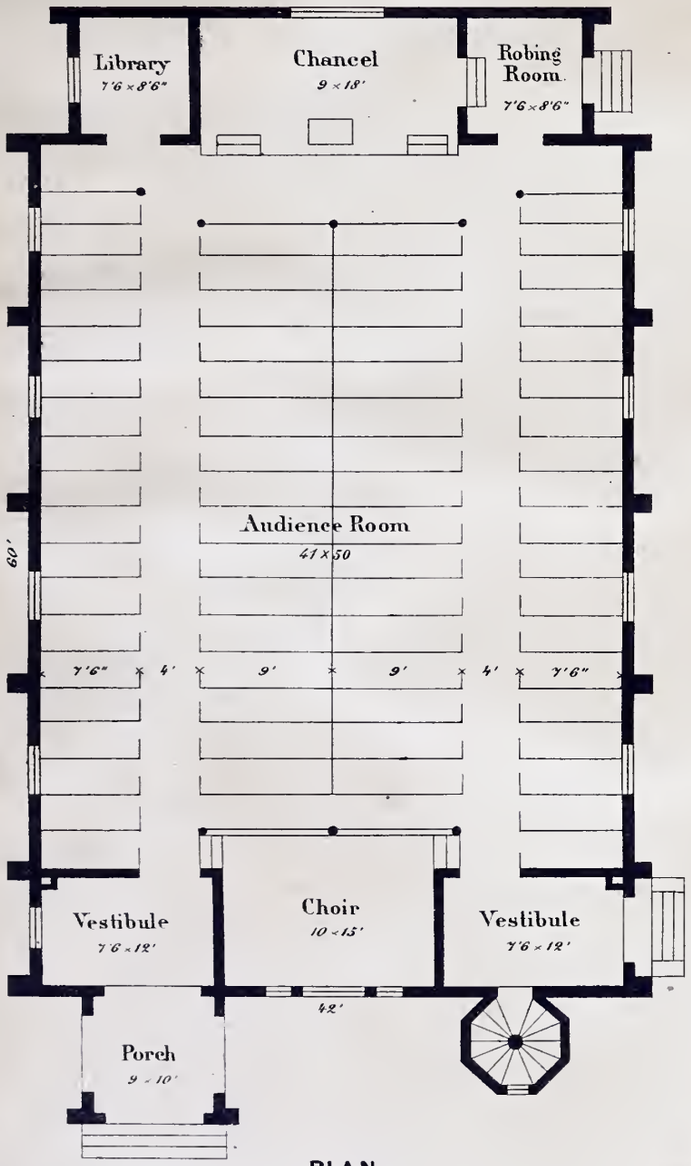
A shows a truss of 70 ft. span; B, one of like span, suitable for a foundry having an elevated skylight in the centre: these trusses should be placed from 8 ft. to 11 ft. apart. C shows a truss of 50 ft. span, having purlins and jack-rafters: these trusses can be placed from 12 ft. to 15 ft. apart with safety. D shows a truss suitable for small churches: purlins and rafters can be placed on them, the same as shown at C, and the trusses should be placed 12 ft. from centres. E shows a truss suitable for spans of 30 ft. to 40. ft. If over 30 ft. two additional rods should be used. The dimensions of the timbers and rods must be varied according to circumstances; we have found those given sufficient to sustain slate roofs in a northern climate.

Scale of designs, $\frac{1}{8}$ in. to the foot.

PLATE 54.

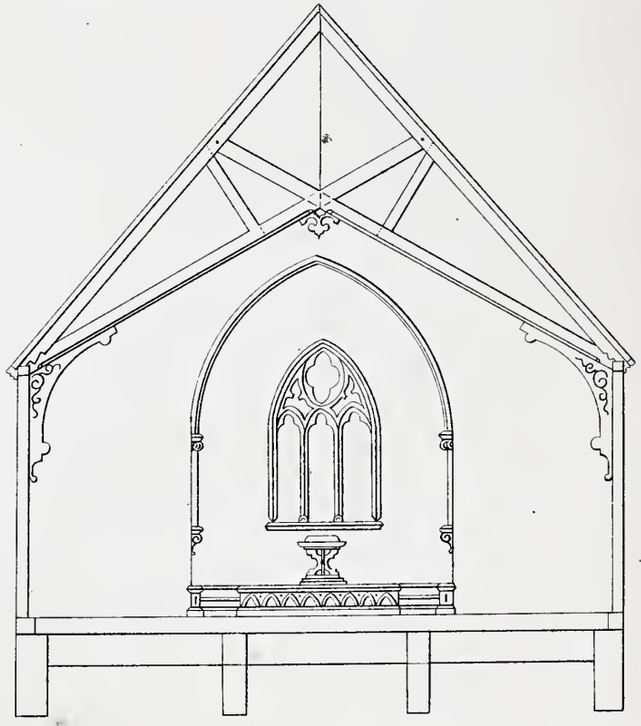
Plate 54 shows the plan, elevation, and section of a small church-edifice, suitable for small towns and villages. The building is designed to be 42 ft. × 60 ft. In front are a porch, two vestibules, and a place for the choir; in rear a chancel and two small rooms. The front turret is octagonal in plan, and contains stairs leading to the belfry, which is designed to be open, and is surmounted by a small spire, which should be covered with slate. The audience-room will seat about 400 people. The design is intended to be executed in wood, but the same design could be readily adapted for brick or stone.

Scale of designs, $\frac{1}{12}$ in. to the foot.



PLAN.

ELEVATION.



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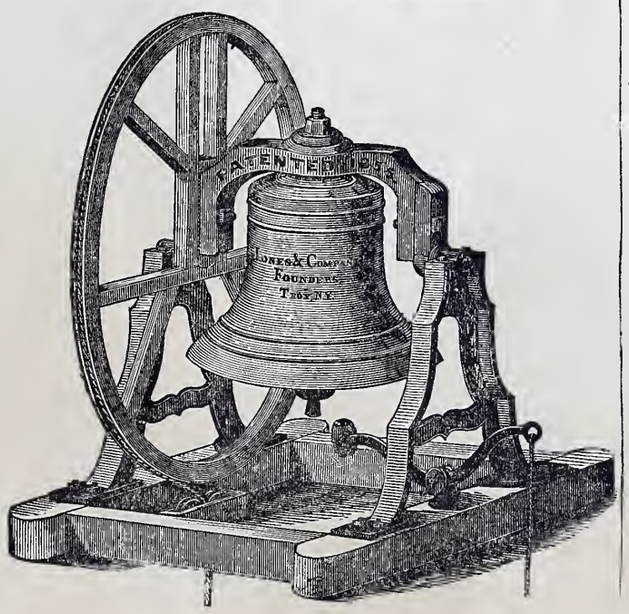

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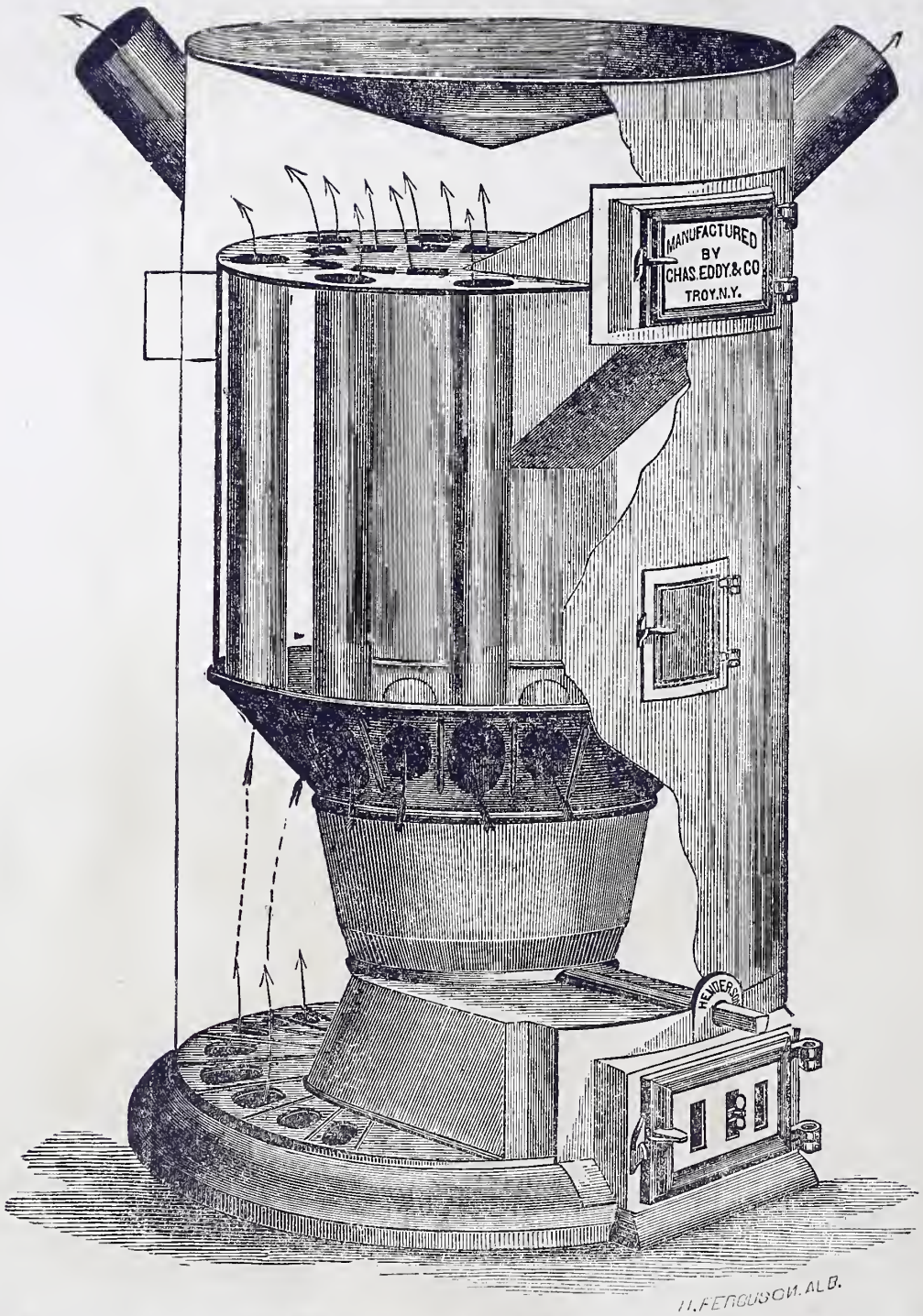

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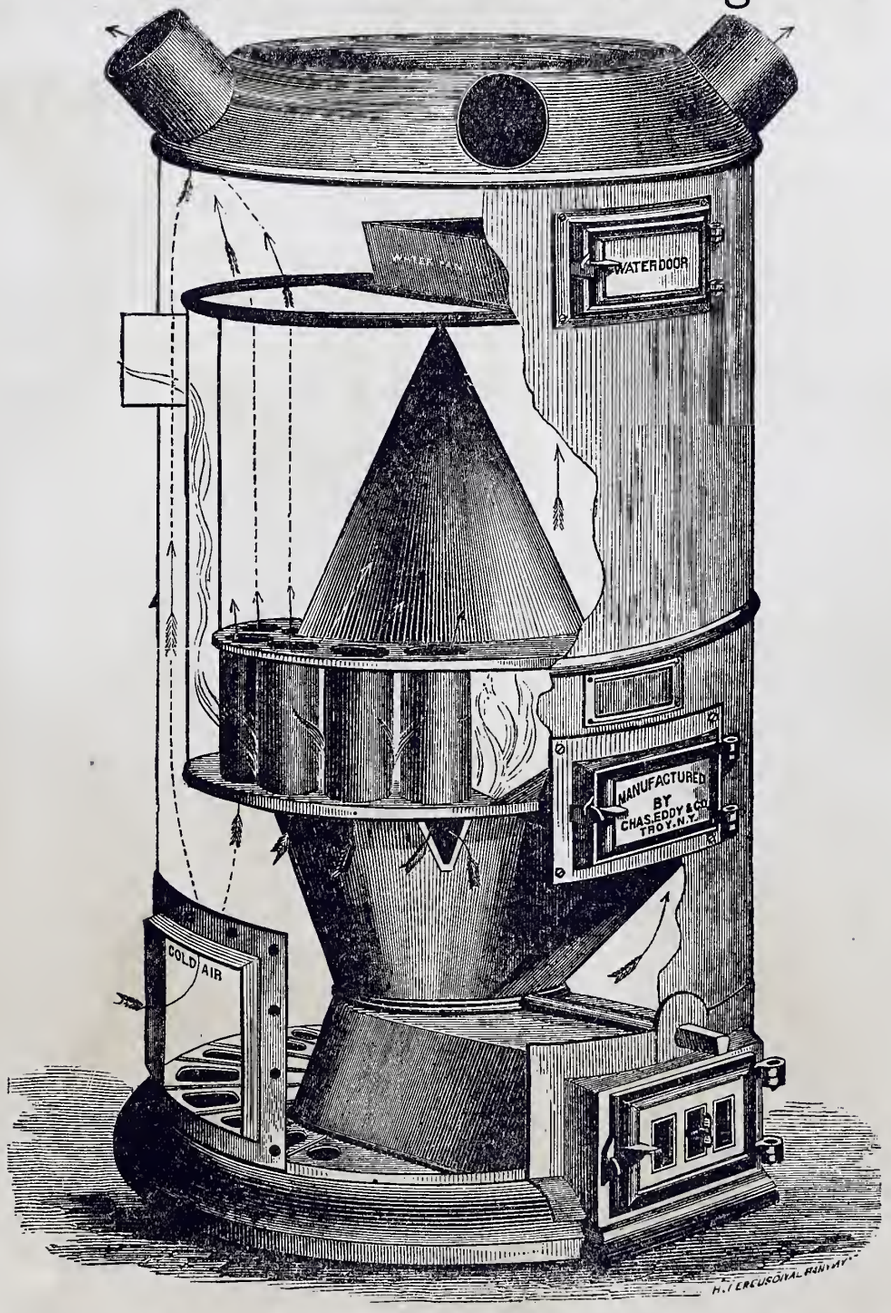

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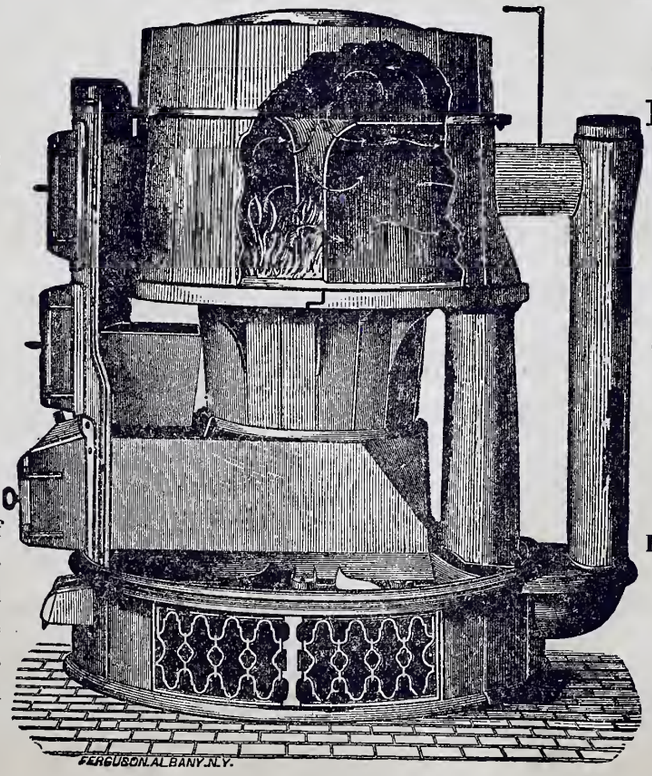

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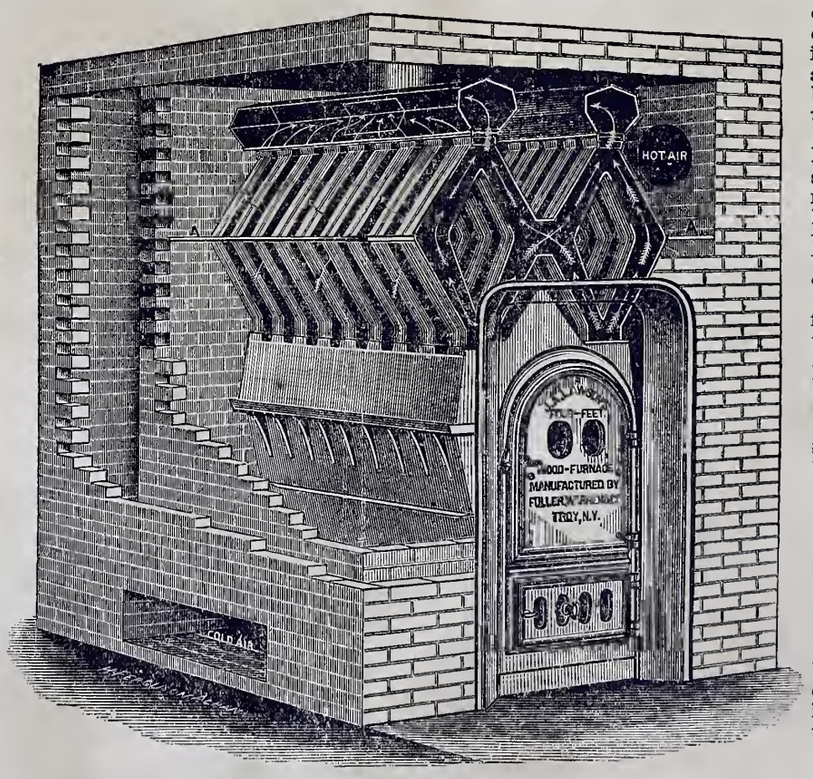

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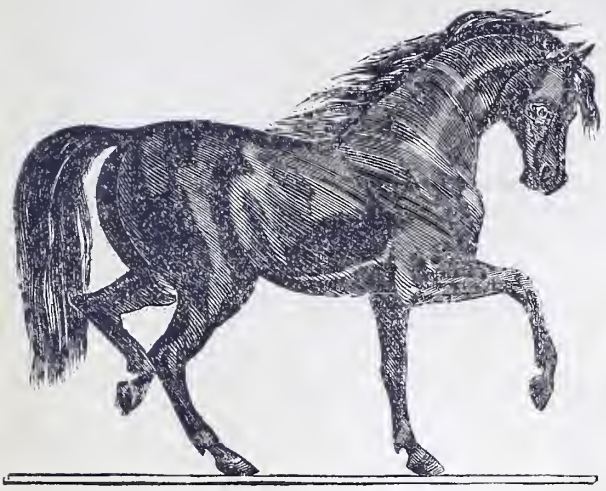

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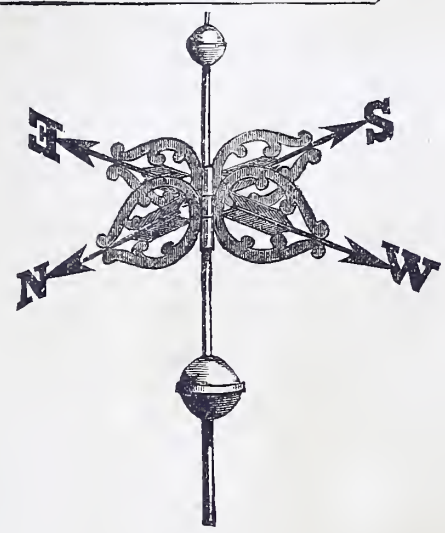

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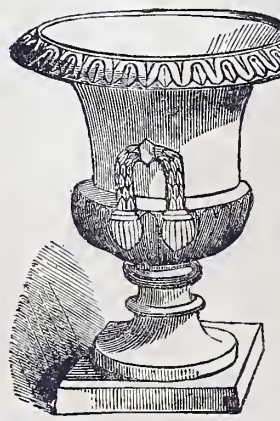

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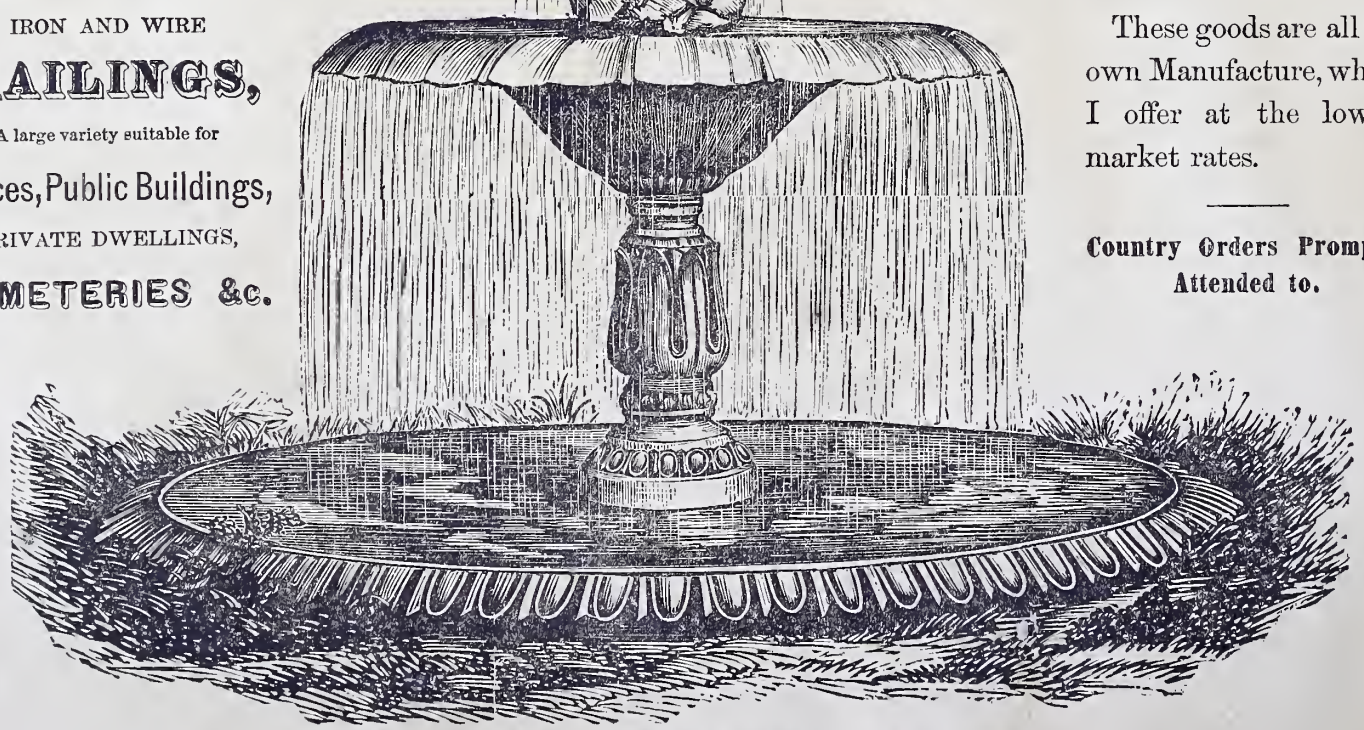

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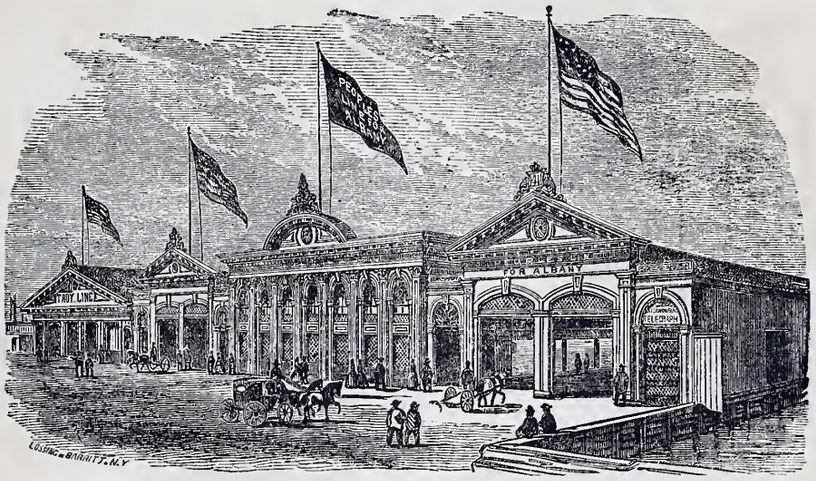

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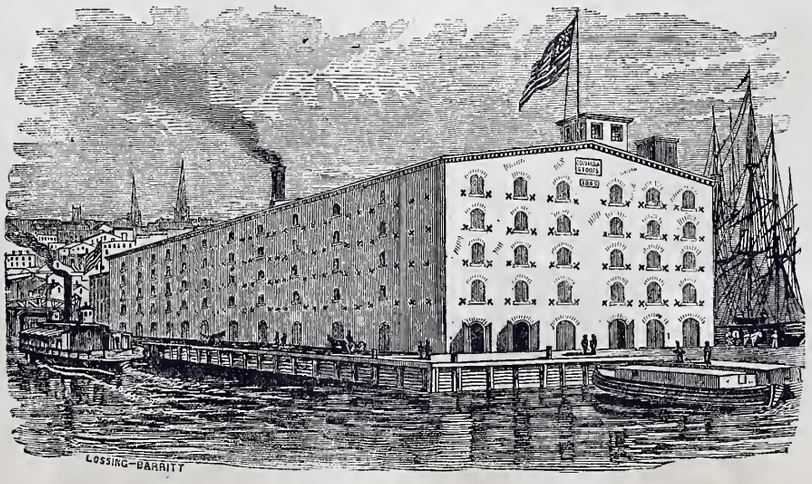

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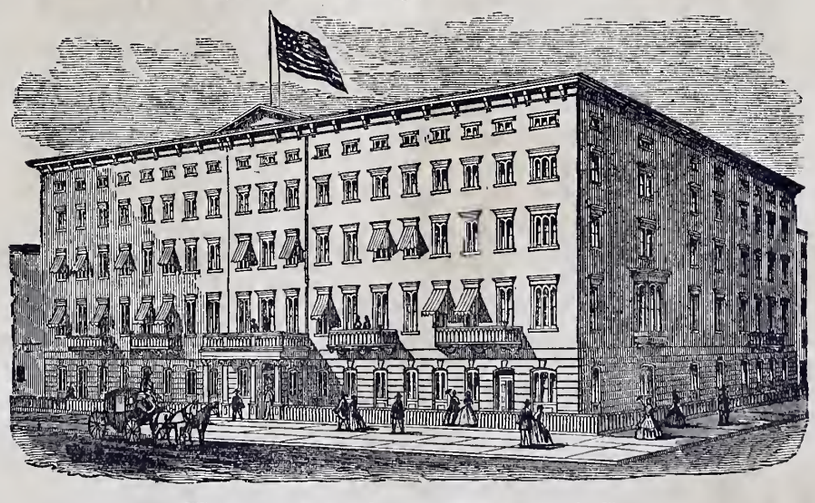

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